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SMALL BUSINESS RESEARCH PROGRAMS

Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks

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GAO-26-107972

January 2026

A report to congressional committees.

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What GAO Found

In March 2023, the Small Business Administration (SBA) established 12 best practices to help participating agencies manage risks posed by small business applicants in their Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. GAO found that participating agencies and selected components have incorporated some best practices in their due diligence efforts, but gaps remain. For example, as of August 2025 all agencies had incorporated three of the 12 best practices, such as leveraging standardized foreign affiliation disclosures to capture consistent information. Most agencies incorporated additional practices, such as documenting a risk-based approach to their due diligence processes, and some incorporated practices such as determining “covered individuals” required to submit disclosures (see figure). The SBIR and STTR Extension Act of 2022 (Extension Act) requires participating agencies to incorporate the applicable best practices in their due diligence programs to the extent practicable. Doing so may improve agencies’ ability to manage potential foreign risks.

Examples of Small Business Administration’s Best Practices	Status of agencies incorporating best practices
 Leverage standardized disclosures	          
 Document risk-based processes to due diligence	          
 Determine ‘covered individuals’	          

 Agency incorporated  Agency minimally incorporated
 Agency partially incorporated  Agency has not incorporated

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

The Extension Act also requires participating agencies to assess SBIR and STTR applicants’ cybersecurity practices. GAO found that nine of the 11 participating agencies and selected components did so using a variety of mechanisms, including business intelligence tools and self-assessment forms. However, two of the agencies GAO reviewed—the National Science Foundation (NSF) and the U.S. Department of Agriculture (USDA)—are not assessing all applicants’ cybersecurity practices. NSF officials told GAO that its applicants are small and nascent companies with limited electronic assets or systems to protect. USDA officials stated they previously understood training applicants on cybersecurity would suffice as an assessment. Until NSF and USDA incorporate cybersecurity assessments into their due diligence programs, they are at an increased risk of making awards to applicants that are vulnerable to cyberattacks.

SBA conducts information sharing meetings for agencies to discuss due diligence efforts, but GAO found agencies have gaps in how they have incorporated SBA’s best practices to manage and reduce foreign risks. For example, GAO found some agencies are not incorporating certain best practices because, in part, they lack clarity on the intent of the practice or the best means to incorporate it. In August 2025, SBA officials acknowledged that based on the gaps and agency needs we identified in this report, additional opportunities may exist for SBA to engage with agencies on the challenges and impacts of incorporating the best practices and due diligence programs. The SBA-facilitated meetings could provide a discussion forum on agencies’ challenges in incorporating the best practices, potential for additional guidance, and possible revisions.

Why GAO Did This Study

The SBIR and STTR programs fund research and development (R&D) performed by U.S. small businesses. In fiscal year 2023, federal agencies issued more than 6,300 such awards in areas such as defense and environmental protection. However, Congress and U.S. intelligence agencies have expressed concerns about foreign adversaries exploiting potential vulnerabilities in these programs and in entrepreneurial small businesses.

The Extension Act requires the 11 participating agencies to implement due diligence programs to assess the security risks posed by small business applicants. It includes a provision for GAO to issue a series of reports on the implementation and best practices of agencies’ due diligence. This report is the third in this series and examines (1) agencies’ incorporation of the best practices, (2) their assessments of applicants’ cybersecurity practices, and (3) interagency mechanisms for sharing information on due diligence programs.

To determine the extent to which agencies have incorporated SBA’s best practices, GAO reviewed agencies’ policies and procedures for conducting due diligence and assessing applicants’ cybersecurity practices. GAO also interviewed SBA and SBIR and STTR program officials at the participating agencies and selected components on the best practices.

What GAO Recommends

GAO is making a total of 26 recommendations: 25 to 10 agencies on incorporating SBA’s best practices on due diligence programs and one to SBA on leveraging its interagency meetings to discuss the practices and help agencies address them. The agencies agreed with the recommendations.

Contents

Letter		1
Background		4
Agencies Incorporated Some Best Practices, but Gaps Remain		9
Most Agencies Assess Small Businesses' Cybersecurity Practices, but Two Do Not		24
SBA Could Leverage Interagency Meetings to Clarify Due Diligence Best Practices and Discuss Challenges Implementing Them		28
Conclusions		31
Recommendations for Executive Action		31
Agency Comments		36
Appendix I	Objectives, Scope, and Methodology	38
Appendix II	Department of Energy's Small Business Innovation Research and Small Business Technology Transfer Programs Applicant Cybersecurity Self-Assessment	42
Appendix III	Comments from the Department of Defense	49
Appendix IV	Comments from the Department of Homeland Security	51
Appendix V	Comments from the Department of Energy	54
Appendix VI	Comments from the Department of Transportation	56
Appendix VII	Comments from the Department of Education	57

Appendix VIII	Comments from the Environmental Protection Agency	58
Appendix IX	Comments from the National Aeronautics and Space Administration	60
Appendix X	Comments from the National Oceanic and Atmospheric Administration	62
Appendix XI	Comments from the National Science Foundation	64
Appendix XII	Comments from the U.S. Department of Agriculture	65
Appendix XIII	GAO Contact and Staff Acknowledgments	67

Figures

Figure 1: Eleven Agencies Participating in the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs	5
Figure 2: Summary of SBA Best Practices for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Due Diligence Programs	8
Figure 3: Status of Due Diligence Best Practices Incorporated by Participating Agencies and Selected Components, as of August 2025	10

Abbreviations

DHS	Department of Homeland Security
DOD	Department of Defense
DOE	Department of Energy
DOT	Department of Transportation
EPA	Environmental Protection Agency
FY	fiscal year
HHS	Department of Health and Human Services
NASA	National Aeronautics and Space Administration
NIH	National Institutes of Health
NIST	National Institute of Standards and Technology
NOAA	National Oceanic and Atmospheric Administration
NSF	National Science Foundation
OCEA	Air Force Office of Commercial and Economic Analysis
R&D	research and development
SBA	Small Business Administration
SBIR	Small Business Innovation Research
STTR	Small Business Technology Transfer
USDA	U.S. Department of Agriculture

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January 28, 2026

Congressional Committees

The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs were established by Congress to enable small businesses to undertake and obtain the benefits of research and development (R&D). The SBIR and STTR programs aim to support scientific excellence and technological innovation through investment of federal research funds in areas such as transportation, health, and energy, with the goal of building a strong national economy.¹ According to data from the Small Business Administration (SBA), which is responsible for overseeing the SBIR and STTR programs, in fiscal year (FY) 2023 the 11 agencies participating in these programs issued more than 6,300 awards valued at approximately \$4.5 billion to over 3,000 small businesses. The participating agencies support small businesses through awards (i.e., contracts, grants, or cooperative agreements) and fund projects in areas such as defense, information technology, and environmental protection.

However, Congress has expressed concerns about foreign adversaries exploiting potential vulnerabilities in these programs. In February 2025, several House of Representatives committees jointly sent letters to each of the participating agencies requesting information about foreign risks to the program. Furthermore, in July 2024 U.S. intelligence agencies warned that emerging technology companies could be targeted by foreign actors seeking to obtain proprietary data, advance their nation's economic and military capabilities, and threaten U.S. national security.

The SBIR and STTR Extension Act of 2022 requires the 11 federal agencies participating in one or both of these programs to implement due diligence programs to assess the security risks posed by small business applicants.² These programs address risks in four areas: foreign ownership, employee affiliations, patent analysis, and cybersecurity practices. In March 2023, SBA issued a list of 12 best practices for agencies participating in SBIR and STTR to incorporate in their risk-based due diligence programs to address foreign risk. We previously reported that most agencies have identified some risks through their due

¹Small Business Administration, *Fiscal Year 2022 SBIR and STTR Annual Report*.

²Pub. L. No. 117-183, § 4,136 Stat. 2180, 2181-86.

diligence programs and have taken steps to further refine their approaches for conducting due diligence.³ In 2024, we found that the Department of Homeland Security (DHS), Environmental Protection Agency (EPA), and the National Aeronautics and Space Administration (NASA) did not have documented processes for requesting analytical support and sharing information, including classified information, to support due diligence activities.⁴ We recommended these agencies document agreed-upon procedures between SBIR and STTR program offices and counterintelligence offices for supporting due diligence reviews. The three agencies concurred with our recommendation and have told us they are working to implement their respective recommendations.

The Extension Act also includes provisions for GAO to issue a series of reports on the implementation and best practices of agencies' due diligence programs to assess security risks presented by small businesses seeking a federally funded award. This report, the third in the series, examines (1) the extent to which agencies are incorporating SBA's best practices for the SBIR and STTR due diligence programs; (2) the extent to which agencies assess the cybersecurity practices of small businesses seeking SBIR and STTR awards; and (3) the mechanisms that exist for agencies to share information on practices, risks, and challenges in their SBIR and STTR due diligence programs.

The scope includes SBA and the 11 participating agencies. For the five agencies with more than one component that issues awards—the Departments of Commerce, Defense (DOD), Energy (DOE), Health and Human Services (HHS), and Homeland Security (DHS)—we selected the component that issued the highest number of awards in FY 2023, which were the most complete data available at the time of our review. The selected components include: the Air Force in DOD; National Institutes of Health (NIH) in HHS; National Oceanic and Atmospheric Administration

³GAO, *Small Business Research Programs: Agencies Are Implementing Programs to Manage Foreign Risks and Plan Further Refinement*, [GAO-24-106400](#) (Washington, D.C.: Nov. 16, 2023) and *Small Business Research Programs: Agencies Identified Foreign Risks, but Some Due Diligence Programs Lack Clear Procedures*, [GAO-25-107402](#) (Washington, D.C.: Nov. 21, 2024).

⁴[GAO-25-107402](#).

(NOAA) in Commerce; Science and Technology Directorate in DHS; and Office of Science in DOE.⁵

For the six remaining agencies—the Departments of Agriculture (USDA), Education, and Transportation (DOT); Environmental Protection Agency (EPA); National Aeronautics and Space Administration (NASA); and National Science Foundation (NSF)—we reviewed the one component in each agency that issues all SBIR or STTR awards.

To address the objectives, we obtained and reviewed agency policies and documents; and interviewed relevant agency officials. For the first objective, we applied SBA's 12 best practices for conducting due diligence to address foreign risks and federal internal controls to the 11 SBIR and STTR participating agencies or selected components we reviewed.⁶ Based on our review of agency documents and interviews, we determined whether a specific SBA best practice was incorporated, partially incorporated, minimally incorporated, or not incorporated by the agency in its due diligence program as of August 2025.⁷

For the second objective, we reviewed processes and tools used by participating agencies to assess award applicants' cybersecurity practices as required by the Extension Act. For the third objective, we collected documents including agendas from SBA-facilitated program manager and due diligence meetings and interviewed SBA officials on the best practices. We also interviewed SBIR and STTR program officials at the

⁵In this report, for DOD, HHS and Commerce, we refer to the component—Air Force, NIH, and NOAA, respectively—we reviewed rather than the department. For DHS and DOE, we refer to the department name rather than the component because these components are responsible for developing agency-wide policy, guidance, and coordination on SBIR and STTR programs for their respective agencies (except for DOE, in which the Advanced Research Projects Agency-Energy operates its own SBIR and STTR program). We use the term “selected participating agencies” or “selected agencies” throughout this report to refer to both the five components we reviewed individually (Air Force, DHS, DOE, NIH, and NOAA) and to the six agencies in which one component issues all SBIR and STTR awards.

⁶GAO, *Standards for Internal Control in the Federal Government*, GAO-25-107721 (Washington, D.C.: May 15, 2025).

⁷We developed the following categories to determine whether a specific SBA best practice was: incorporated—the agency provided evidence that it largely addressed all of the elements of the best practice; partially incorporated—the agency provided evidence that it had addressed more than one element of the best practice; minimally incorporated—the agency provided evidence that it had addressed at least one element in the best practice; not incorporated—the agency did not provide evidence that it had addressed any of the elements in the best practice.

participating agencies and selected components to discuss mechanisms available for them to exchange information on their programs with other participating agencies. For more information on the objectives, scope, and methodology, see appendix I.

We conducted this performance audit from December 2024 to January 2026 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

Background

Overview of SBIR and STTR Programs

Federal agencies with an extramural research or R&D budget greater than \$100 million are required to participate in the SBIR program, and agencies with R&D obligations of more than \$1 billion are required to participate in the STTR program, pursuant to the Small Business Act.⁸ These programs issue competitive awards to small businesses to support scientific excellence and technological innovation for economic purposes. These awards can come in the form of contracts, grants, or cooperative agreements. According to SBA, 11 federal agencies and their components participate in the SBIR and STTR programs (see fig. 1).⁹

⁸15 U.S.C. § 638(f)(1), (n)(1)(A). Agencies' R&D programs generally include funding for two types of R&D: intramural and extramural. Intramural R&D is conducted by employees of a federal agency in or through government-owned, government-operated facilities. Extramural R&D is generally conducted by nonfederal employees outside of federal facilities. Federal agency, as defined under the statute, does not include agencies within the intelligence community. 15 U.S.C. § 638(e)(2). According to SBA officials, in FY 2021 there was a reclassification to include federally funded R&D centers under intramural R&D.

⁹In this report, we refer to the agencies that issue SBIR and STTR awards as "participating agencies."

Figure 1: Eleven Agencies Participating in the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs

<p>Department of Commerce</p>  <ul style="list-style-type: none"> National Institute of Standards and Technology National Oceanic and Atmospheric Administration 	<p>Department of Homeland Security</p>  <ul style="list-style-type: none"> Science and Technology Directorate Countering Weapons of Mass Destruction Office 	<p>Department of Health and Human Services</p>  <ul style="list-style-type: none"> Administration for Community Living Centers for Disease Control and Prevention Food and Drug Administration National Institutes of Health 		
<p>Department of Defense</p>  <ul style="list-style-type: none"> Department of the Air Force Department of the Army Department of the Navy Defense Advanced Research Projects Agency 	<ul style="list-style-type: none"> Defense Health Agency Defense Logistics Agency Defense Microelectronics Activity Defense Threat Reduction Agency 	<ul style="list-style-type: none"> Chemical and Biological Defense Program Missile Defense Agency Office of the Secretary of Defense Special Operations Command 		
<p>Department of Energy</p>  <ul style="list-style-type: none"> Advanced Research Projects Agency-Energy National Nuclear Security Administration Office of Cybersecurity, Energy Security, and Emergency Response Office of Electricity 	<ul style="list-style-type: none"> Office of Energy Efficiency and Renewable Energy Office of Environmental Management Office of Fossil Energy and Carbon Management Office of Nuclear Energy Office of Science 	 <p>Environmental Protection Agency</p>		
 <p>National Aeronautics and Space Administration</p>	 <p>National Science Foundation</p>	 <p>Department of Education</p>	 <p>U.S. Department of Agriculture</p>	 <p>Department of Transportation</p>

Source: GAO analysis of agency information (data); 11 SBIR/STTR agencies (icons). | GAO-26-107972

Note: Six agencies currently participate in STTR: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. In addition to the Department of Defense components listed, the National Geospatial-Intelligence Agency, the Strategic Capabilities Office, and the Space Development Agency also participate in the SBIR and STTR programs. However, according to agency officials, the National Geospatial-Intelligence Agency and Strategic Capabilities Office issue solicitation topics through the Office of the Secretary of Defense, while the Space Development Agency issues solicitation topics through the Department of the Air Force.

SBA's Best Practices in Due Diligence Activities	<p>The Extension Act directed agencies that participate in the SBIR and STTR programs to use a risk-based approach as appropriate to assess security risks associated with small businesses seeking an award in four areas:</p>
	<ul style="list-style-type: none">• Cybersecurity practices. Despite the increase in cybercrime awareness, many small businesses remain vulnerable due to a lack of resources and knowledge, according to SBA. Incorporating cybersecurity practices can help protect information related to federally funded research.¹⁰• Patent analysis. SBIR and STTR awards are potentially subject to technology and intellectual property risks that may be identified through patent analysis. Agencies can use data from patent applications and issued patents to uncover potential relationships between entities or individuals and foreign actors.• Employee affiliations. Employees who perform R&D using a SBIR or STTR award may be subject to exploitation attempts to obtain sensitive research information. Agencies are to assess potential risks of employee affiliations and financial obligations and ties with foreign countries. Agencies may focus particularly on those employees who can significantly influence the direction of the research, the acquisition of data, or the method and analysis of the research.• Foreign ownership. Consistent with federal regulations and to be eligible for SBIR and STTR awards, businesses must meet specific eligibility requirements.¹¹ For example, a SBIR or STTR awardee must generally be at least 50 percent directly owned and controlled by U.S. citizens or permanent residents. Due diligence programs are to assess a small business's financial ties and obligations to a foreign country, entity, or person.

The Extension Act also requires SBA to disseminate due diligence best practices to SBIR and STTR participating agencies. These best practices were developed in collaboration with the White House Office of Science and Technology Policy, the Committee on Foreign Investment in the United States, and the 11 participating agencies. The Extension Act

¹⁰These include the National Institute of Standards and Technology's cybersecurity risk management practices that include protecting, detecting, and responding to attacks (National Institute of Standards and Technology, *The NIST Cybersecurity Framework (CSF) 2.0*, (February 26, 2024)).

¹¹SBIR and STTR Size and Eligibility Requirements for SBIR and STTR Programs, 13 C.F.R. §§ 121.701-05 (2024).

requires the agencies to incorporate the applicable best practices disseminated by SBA into their due diligence programs “to the extent practicable.” In March 2023, SBA issued a list of 12 best practices for SBIR and STTR participating agencies to incorporate. Figure 2 shows a summary of SBA’s best practices for the due diligence programs.

Figure 2: Summary of SBA Best Practices for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Due Diligence Programs

Best Practices	Summary Description	
	Leverage standardized disclosures	Utilize a common framework to capture disclosures and support due diligence through a consistent collection of information across small business applicants and federal agencies.
	Utilize multiple information sources	To facilitate due diligence, agencies should utilize multiple sources of information, such as applicant disclosures, open-source resources, commercial subscription databases, and other publicly available sources.
	Prioritize due diligence for meritorious proposals	Consider the agency's available resources, associated costs, personnel, and timeline to award requirements, to prioritize due diligence for meritorious proposals or applications.
	Measure cost, time, and outcomes	Compile metrics in an aggregated and non-attributable manner to understand any impact to award timeliness, costs associated with an agency's SBIR- and STTR-related due diligence efforts, and number of proposals or applications declined due to due diligence findings.
	Conduct due diligence for all new awards	Perform due diligence for all new awards.
	Encourage education and training	Encourage award recipients and applicants to leverage currently available and forthcoming federal research security training modules.
	Ensure cybersecurity requirements are aligned with federal frameworks	Agency cybersecurity assessments should focus on basic small business safeguarding protocols and remain consistent with federal cybersecurity frameworks.
	Document risk-based processes to due diligence	Document the agency's risk-based processes to due diligence factoring both the reputational and security risks presented by potential applicants.
	Explain that disclosure does not mean denial	Encourage disclosure by reassuring businesses that the disclosure of information related to foreign involvement or investment does not independently disqualify an applicant.
	Determine 'covered individuals'	Consider the full range of individuals performing the award, to include as appropriate, postdoctoral fellows, subcontractors, and sub-grantees, in determining 'covered individuals.'
	Mitigate disclosure reporting burden	Leverage established reporting processes to capture updates to due diligence disclosures in order to reduce administrative burden for small businesses.
	Make referrals to appropriate enforcement authorities	Evaluate if alternative authorities exist or further action is necessitated to adequately address any risks identified through the agency's due diligence processes.

Source: GAO analysis of Small Business Administration (SBA) Best Practices for Federal Agencies Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Due Diligence Programs; toonsteb/adobestock.com (icons). | GAO-26-107972

Note: In general, the term “covered individual” means an individual who (1) contributes in a substantive, meaningful way to the scientific development or execution of a R&D project proposed to be carried out with a R&D award from a federal research agency; and (2) is designated as a covered individual by the federal research agency concerned.

We previously reported that SBA’s efforts to develop the best practices reflected selected practices we identified for effective collaboration, including defining a common outcome, bridging organizational cultures, and ensuring that relevant participants are included.¹² SBA also developed a set of standardized disclosure questions about foreign affiliations or relationships to foreign countries that SBIR and STTR applicants must answer to help participating agencies assess foreign influence.

Agencies Incorporated Some Best Practices, but Gaps Remain

As of August 2025, of the 12 best practices SBA established for agencies’ due diligence programs, all participating agencies and selected components we reviewed incorporated three practices: leveraging standardized disclosures, using multiple information sources to screen applicants, and prioritizing due diligence for meritorious proposals. Most incorporated additional practices such as measuring cost, time, and outcomes of their due diligence programs; conducting due diligence on all new awards; and encouraging education and training.¹³ Some agencies have incorporated practices on explaining that disclosure does not mean denial and determining “covered individuals” but have not adopted others. A few agencies have taken some steps to mitigate the disclosure reporting burden and refer risks identified during due diligence to other authorities.

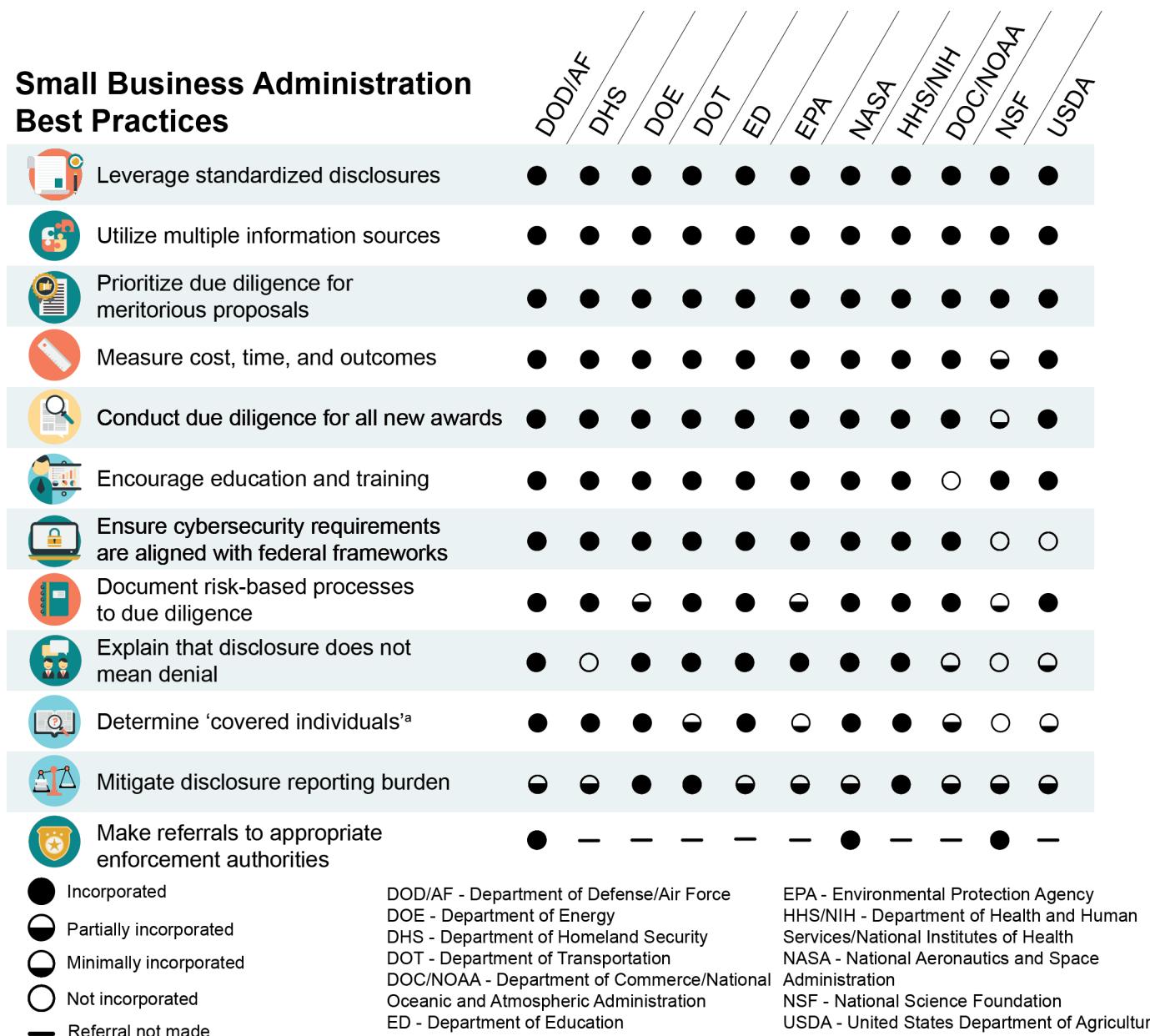
We reported in November 2023 that participating agency officials had stated (1) the best practices are helpful, cover different types of risk, and are sufficiently granular to use in developing their agencies’ due diligence programs and (2) the best practices are minimum standards that their agencies could build upon, based on their individual needs.¹⁴ Figure 3 shows the status of participating agencies and selected components incorporating SBA’s best practices as of August 2025.

¹²[GAO-24-106400](#).

¹³We use “few,” “some,” and “most” to characterize the extent of agency incorporation of each best practice. We define “few” as 1 to 3, “some” as 4 to 7, and “most” as 8 to 10 agencies.

¹⁴[GAO-24-106400](#).

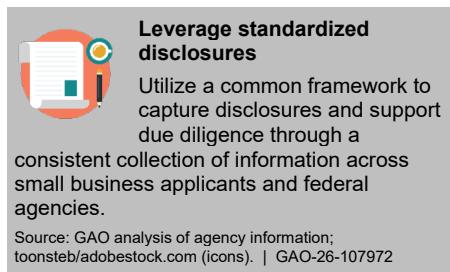
Figure 3: Status of Due Diligence Best Practices Incorporated by Participating Agencies and Selected Components, as of August 2025



Source: GAO analysis of agency documents and interviews with program officials; toonsteb/adobestock.com (icons). | GAO-26-107972

^aIn general, the term "covered individual" means an individual who (1) contributes in a substantive, meaningful way to the scientific development or execution of a R&D project proposed to be carried out with a R&D award from a federal research agency; and (2) is designated as a covered individual by the federal research agency concerned.

All Agencies Have Incorporated Practices on Disclosures, Information Sources, and Proposal Prioritization

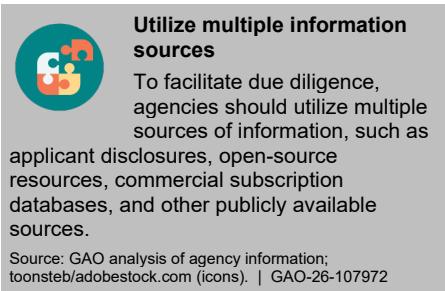


Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

All participating agencies and selected components that we reviewed have incorporated three of the best practices: leveraging standardized disclosures, using multiple sources of information to screen applicants, and prioritizing due diligence for meritorious proposals.

Leverage standardized disclosures. All participating agencies and selected components (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NOAA, NSF, USDA) leverage the standardized form for disclosing foreign affiliations and foreign relationships that was published in the SBA *SBIR and STTR Program Policy Directive* in May 2023. Two agencies (Education, NSF) include additional questions specific to their agencies in the disclosure form. For example, Education asks applicants to provide more specific details on patents held, foreign funding, and affiliations of covered individuals.

The standardized disclosure form includes questions such as whether an applicant or a recipient party participates in any malign foreign talent recruitment program; whether there is a parent company, joint venture, or subsidiary of the applicant that is based in or receives funding from any foreign country of concern; or whether the applicant or recipient has any venture capital or institutional investment.¹⁵ According to SBA, the form allows agencies to collect standardized information across all applicants and mitigates the burden on applicants seeking funding from multiple programs at different agencies.



Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

Utilize multiple information sources. All participating agencies and selected components (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NOAA, NSF, USDA) use multiple sources of information—such as applicant disclosure forms, open-source information, or commercial databases—to screen applicants. For example, DHS uses various open-source data to verify information provided in the disclosure form. In another example, USDA uses information from government databases (e.g., databases to help prevent and detect improper payments and to search public patents) in addition to the disclosure form, to identify risks in patent analysis, employee affiliations, and foreign ownership. Some agencies, such as Air Force, DOE, and EPA, cite the

¹⁵The Extension Act defines 'foreign country of concern' to mean the People's Republic of China, the Democratic People's Republic of Korea, the Russian Federation, the Islamic Republic of Iran, or any other country determined to be a country of concern by the Secretary of State.

use of classified sources or counterintelligence information in their due diligence plans.



Prioritize due diligence for meritorious proposals

Consider the agency's available resources, associated costs, personnel, and timeline to award requirements, to prioritize due diligence for meritorious proposals or applications.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

Prioritize due diligence for meritorious proposals. All participating agencies (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NOAA, NSF, USDA) prioritize due diligence for meritorious proposals. We found agencies incorporate this best practice in different ways. For example, NOAA requires all applicants to complete the standardized disclosure form but conducts due diligence only on applications that are deemed meritorious by subject matter experts. On the other hand, Air Force reviews the standardized disclosure forms for all proposals and then conducts additional due diligence for proposals that have passed a technical evaluation. In both cases, these agencies prioritize due diligence for meritorious proposals—applications that passed an initial round of review.

Most Agencies Have Incorporated Practices on Measuring Outcomes, Encouraging Training, and Other Practices



Measure cost, time, and outcomes

Compile metrics in an aggregated and non-attributable manner to understand any impact to award timeliness metrics, the direct costs of the agency's SBIR- and STTR-related due diligence efforts and capture the aggregate number of proposals or applications that cannot proceed due to due diligence findings.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

We also found that most of the participating agencies and selected components we reviewed incorporated practices on measuring cost, time, and outcomes; conducting due diligence for all new awards; encouraging education and training; and documenting risk-based processes to conduct due diligence.¹⁶

Measure cost, time, and outcomes. Ten agencies (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NOAA, USDA) have compiled metrics related to cost, time, and outcomes associated with due diligence.¹⁷ For example, agencies must report annually to SBA and Congress on the costs of establishing their due diligence programs.¹⁸ For FY 2024, agencies reported costs such as salaries and training for program staff and subscription fees for commercial databases. Agencies use various methods to track these three metrics, including dashboards, internal reports, and spreadsheets.

For example, Air Force uses a dashboard and spreadsheets to track direct costs, timeliness, and outcomes of awards. Air Force officials

¹⁶SBA's best practice—ensure cybersecurity requirements are aligned with federal frameworks—is discussed in objective two of this report. Please refer to that section for information on this best practice.

¹⁷SBA elaborates in this best practice that measurements of cost, time, and outcomes include (1) direct costs of the agency's SBIR- and STTR-related due diligence efforts, (2) impact of due diligence efforts on award timeliness, and (3) aggregate number of proposals or applications that cannot proceed due to due diligence findings.

¹⁸15 U.S.C. § 638(vv)(3)(B).

explained that because the due diligence process is supported by multiple teams and Air Force organizations, program staff track many metrics to understand where process improvements can be made.¹⁹ Education uses a spreadsheet to ensure that award recipients are notified within 90 days of proposal submission.²⁰ In another example, to ensure awards are made in a timely manner, NIH alerts relevant stakeholders when an application's foreign risk assessment has been pending for greater than 25 days. NIH also calculates the length of time for an application to receive a foreign risk clearance and shares this information with NIH program staff and leadership.

One agency (NSF) has partially incorporated this practice. NSF has established processes to track two of the three metrics (outcome and costs), but it has not established a metric to measure the impact of due diligence on the timeliness of awards. Officials stated that it would be very difficult to isolate the impact of the Extension Act's requirements for due diligence activities from other factors that may affect award timeliness and that it would be challenging to implement such a process and consume valuable resources and staff time. We have previously reported that award timeliness in the SBIR and STTR programs is important to enable the businesses to begin work under the awards and avoid potential negative effects that delays in award funding may have on recipients' business practices.²¹

The SBA best practice encourages agencies to compile metrics to understand the impact of due diligence activities on award timeliness. Federal internal controls also state that agencies should define objectives in measurable terms so that performance toward those objectives can be assessed.²² Establishing metrics on the impact to award timeliness could

¹⁹Air Force receives a high volume of proposals compared with other SBIR and STTR programs. Air Force officials told us they received more than 10,000 proposals in FY24 and awarded over 1,700 contracts.

²⁰According to the SBA SBIR and STTR Policy Directive, all but two participating agencies are required to review proposals and notify applicants of award decisions within 90 calendar days after the closing date of a solicitation and recommended to issue an award within 180 days after the closing date. The directive requires two agencies—NIH and NSF—to notify applicants no more than 1 year after the closing date of the solicitation and recommends award issuance no more than 15 months after the closing date. *SBIR and STTR Program Policy Directive* § 7(c)(1).

²¹GAO, *Small Business Research Programs: Reporting on Award Timeliness Could Be Enhanced*, [GAO-23-105591](#) (Washington, D.C.: Oct. 12, 2022).

²²[GAO-25-107721](#).

help NSF determine necessary resources for the programs and provide indications of program effectiveness.



Conduct due diligence for all new awards

Perform due diligence for all new awards.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

Conduct due diligence for all new awards. Ten agencies (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NOAA, USDA) have established processes to ensure that due diligence is performed on all new awards to address all four risk areas identified in the Extension Act—cybersecurity practices, patent analysis, employee affiliations, and foreign ownership. For example, DOT maintains a spreadsheet to track the status of due diligence activities for all awards, including risks that have been assessed for a small business' cybersecurity practices, patents, employee affiliations, and foreign ownership. DOE also maintains a spreadsheet that provides the program office with real-time updates on the progress of the due diligence review and indicates when awards are cleared, declined, or still in progress.

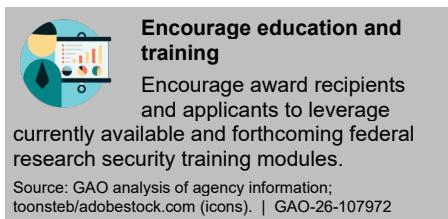
In some instances, these agencies use automated systems to track the progress of applications through the review process, which includes due diligence. For example, both Air Force and NIH use software systems that track the status of applications throughout the pre-award review process. Their systems also alert program staff to applications that have not completed a due diligence step for a foreign risk review.

One agency (NSF) has minimally incorporated this practice. First, of the four risk areas in the Extension Act, the agency does not consistently conduct due diligence to address applicants' cybersecurity practices for all new awards. NSF officials told us that program directors who have concerns about cybersecurity occasionally address these risks via direct questions or documentation requests from the applicant. However, such a process relies on the knowledge of individual program directors instead of agency guidance to address applicants' cybersecurity practices.

Second, while NSF has established multiple procedures to conduct due diligence for the remaining three risk areas in the Extension Act, it does not track its activities in a consistent manner to ensure the process is completed for all new awards. For example, NSF officials noted that some of their program directors are using a web-based portal to send a standardized disclosure form to applicants, while others still collect and receive this document via email or through the agency's internal grants

management system.²³ These officials explained that they use multiple procedures to ensure due diligence is conducted on all new awards and that they do not need a single “master document” to track this process. However, we reviewed a snapshot of NSF’s grant management system used to track some applications during the review process and found that the system does not indicate (1) how risks in any of the four Extension Act areas are assessed or (2) the results of those assessments.

Without consistent procedures for conducting due diligence on all new awards, SBIR and STTR program staff may handle tasks differently, leading to varied and unpredictable outcomes. The SBA best practice states that agencies must perform due diligence for all new awards. By developing mechanisms to ensure all awards undergo due diligence, NSF can ensure any possible risks or threats have been identified and mitigated before federal funds are made available.



Encourage education and training. Ten agencies (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NSF, USDA) either encourage or require applicants to complete federal research security training, including additional cybersecurity training, such as by sending emails to applicants, posting on their websites, or including instructions in the solicitation. For example, NASA and NIH use newsletter distributions to notify applicants of available federal research security trainings. Other agencies, such as Air Force and DOE, encourage applicants and awardees to leverage publicly available trainings on topics such as foreign ownership and influence and small business information security. Additionally, in June 2025, NSF published a notice on its website stating that beginning in October 2025 the agency will require federal research security training from individuals listed as senior or key personnel on a proposal. According to NSF officials, this agency-wide guidance will apply to SBIR and STTR applicants.

Some of these agencies (DOT, Education, EPA, USDA) also require awardees to complete cybersecurity training as part of the award process. For example, DOT requires Phase II award recipients to complete a three-part cybersecurity training within 90 days of receiving the award

²³In July 2025, NSF officials told us they are piloting a software system to automate aspects of SBIR and STTR proposal review, including due diligence processes. According to NSF documents, a potential outcome of the system is improved efficiency and effectiveness of program directors’ data gathering activities and consistency across the proposal review process.

notification.²⁴ After the training, the awardee must send proof of completion to the SBIR program office. Similarly, EPA and USDA also require all awardees to send proof of completion of cybersecurity training within two months or 10 days of receiving the award, respectively.

One agency (NOAA) has not incorporated this practice. NOAA officials told us they do not encourage applicants to leverage available federal research security training or education. The officials stated that due to staffing challenges, NOAA has not incorporated this best practice but plans to do so in the future. In November 2024, we reported about the importance of education and training for SBIR and STTR applicants, particularly on their potential vulnerabilities to cybersecurity threats and on available resources and guidance for cybersecurity.²⁵

The SBA best practice states agencies should encourage award recipients and applicants to leverage currently available and forthcoming federal research security training modules. Encouraging awardees and applicants to leverage available federal research security guidance, training, and tools may help protect small businesses from cybersecurity threats and provide applicants with knowledge and tools to protect themselves against risks to their research.



Document risk-based processes to due diligence

Document the agency's risk-based processes to due diligence factoring both the reputational and security risks presented by potential applicants.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

Document the risk-based processes to due diligence. Eight participating agencies (Air Force, DHS, DOT, Education, NASA, NIH, NOAA, USDA) have documented their risk-based approach to due diligence and established processes for identifying risks in cybersecurity practices, patent analysis, employee affiliations, and foreign ownership.²⁶ These documented risk-based approaches vary widely between agencies. Most of these agencies indicate their risk-based approach in a guidance document for program staff, detailing processes for

²⁴Agencies issue Phase I awards to fund small businesses to determine the scientific and technical merit and feasibility of ideas that appear to have commercial potential. Small businesses with successful Phase I projects may compete for Phase II awards, which continue the R&D project for an additional period.

²⁵[GAO-25-107402](#).

²⁶This SBA best practice includes (1) documenting the agency's risk-based approach; (2) considering technology-based risk factors during topic development; (3) considering tiered levels of risk; and (4) considering multiple factors such as award phase, nature of the technology, and significance of the agency's investment. We also determined that in documenting a risk-based approach, agencies must describe how they are identifying and assessing risk in all four areas cited in the Extension Act: cybersecurity practices, patent analysis, employee affiliations, and foreign ownership.

incorporating due diligence into the agency's existing SBIR and STTR program. For example, the DHS due diligence plan details several risk-based approaches, including performing an evaluation of potential risks associated with the topic before the solicitation is released. DHS also described a process to determine if the technology developed in the program would attract nefarious foreign actors who would seek to exploit it through copyright and data rights infringement.

Two agencies (DOE, EPA) have partially incorporated this practice. Both agencies have documented their approaches to due diligence but are missing one component of this practice. Specifically, DOE and EPA do not include any of the risk-based approaches suggested by the best practice in their documents.²⁷ Examples of these approaches include considering technology-based risk factors during its topic development process or considering tiered levels of risk. DOE officials explained that they have established a process to identify higher-risk topics before solicitations are published and maintain that they consider tiered levels of risk based on award phase. But these risk-based approaches are not documented in DOE's due diligence plan. DOE officials further noted that the agency is still in the process of developing its complete due diligence process and plans to document its risk-based approach then.

In addition, EPA provided documentation from June 2023 indicating that the agency had considered multiple factors in documenting its risk-based process, but this risk-based approach is not noted in the current guidance manual that was updated in April 2025. EPA acknowledged that better linkages between the documents are needed to reinforce current guidance to program staff.

NSF has minimally incorporated this practice. NSF documented its approach to due diligence, but the document lacks details on a risk-based approach to cybersecurity practices.²⁸ We inquired about this issue, and NSF officials told us that program directors who have concerns about cybersecurity will address cybersecurity risks via direct questions or documentation requests from the applicant. NSF officials also noted that they do not have a specific written document that lays out their full due

²⁷DOE's due diligence plan is internally referred to as *DOE Approach to SBIR/STTR Due Diligence (June 2023)*. EPA's due diligence plan is referred to as *EPA's SBIR Program Overview and Guidance Manual (April 2025)*.

²⁸NSF's due diligence plan is internally referred to as *NSF Updated Procedures for Risk-Based Due Diligence (May 2024)*.

diligence procedures to conduct a risk assessment in the areas of cybersecurity, patent analysis, employee affiliations, and foreign ownership.²⁹

The Extension Act requires agencies to (1) establish a due diligence program that uses a risk-based approach to assess risks in cybersecurity practices, patent analysis, employee affiliations, and foreign ownership and (2) incorporate to the extent practicable the applicable best practices—one of which is to document the agency’s risk-based approaches to due diligence. SBA’s best practices state that agencies should consider a variety of factors, including technology-based risk factors during the development of award topics for SBIR and STTR solicitations.

Without a due diligence plan that addresses the four risk areas, particularly those related to cybersecurity, it is unclear how agencies can ensure their SBIR and STTR programs are identifying and mitigating possible risks. Additionally, without clear documentation, program staff may not have a common understanding of roles, responsibilities, and processes intended to help small businesses address risks from illicit foreign actors. Such documentation can also mitigate the risk of limiting key institutional knowledge to a few personnel, such as in the event of staff turnover.

Some Agencies Have Incorporated Other Practices, but Gaps Remain



Explain that disclosure does not mean denial

Encourage disclosure by reassuring businesses that the disclosure of information related to foreign involvement or investment does not independently disqualify an applicant.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

We found that some agencies have incorporated practices to explain that disclosure does not mean denial and to determine ‘covered individuals.’ However, gaps remain for other agencies.

Explain that disclosure does not mean denial. Seven participating agencies (Air Force, DOE, DOT, Education, EPA, NASA, NIH) explain to applicants that disclosing information required by the due diligence

²⁹NSF provided several documents—including a merit review flow diagram, pre-recommendation checklist, and review analysis template—but these documents do not clearly outline the agency’s risk-based approach for assessing risk in all four areas noted in the Extension Act.

process does not mean denial.³⁰ Most of these agencies communicate this information to applicants in application materials. For example, DOE includes language in its SBIR and STTR grant application guide, while DOT communicates to applicants in both the solicitation and on the disclosure form itself that foreign involvement or investment does not independently disqualify applicants from receiving an award. Education explains in the solicitation that disclosed foreign affiliations or funding sources are not automatic grounds for declining a SBIR application and that the agency may require further mitigation measures after evaluating the potential risk.

Two agencies (NOAA, USDA) have minimally incorporated this practice. These agencies explain that “disclosure does not mean denial” through outreach events for applicants, but it is unclear whether information shared is communicated in a consistent manner. For example, NOAA officials noted that the SBIR program communicates this information at outreach events such as TechConnect, SBA Innovation Conferences, and NOAA’s SBIR Kickoff events. Similarly, USDA officials told us they communicate this information in webinars. However, this communication method does not ensure that the information is consistently communicated to applicants. NOAA officials stated that due to staffing challenges they have not incorporated this best practice but are planning to do so in the future. USDA officials stated that they had understood it would be sufficient to communicate “disclosure does not mean denial” through webinars but noted they can include this information in the upcoming solicitation and the terms and conditions of the award.

Two agencies (DHS, NSF) have not incorporated this best practice. Specifically, DHS explained that communicating this particular point would be inaccurate when the information disclosed could disqualify an applicant. In addition, NSF explained that a statement to the effect of “disclosure does not mean denial” seems redundant when awardees will undergo a due diligence process that already suggests some will receive awards and others will not.

³⁰In our review, we initially found that Air Force had minimally incorporated this practice because they had verbally communicated to applicants at outreach events that disclosure does not mean denial but had not consistently made this information accessible to applicants, such as in the solicitation or program website. In response to our observations, Air Force acknowledged that adding this information to its program website would be a good practice to incorporate and did so in August 2025.

The SBA best practice states that the disclosure of information related to foreign involvement or investment must be encouraged and such clarifications can reassure small businesses that foreign involvement does not independently disqualify them. Federal internal controls also state that agencies should communicate relevant and quality information to support their programs. Without clearly communicating to applicants that disclosing information will not automatically lead to a denial, agencies risk small businesses not providing the necessary information to determine whether there is a risk.



Determine 'covered individuals'

Consider the full range of individuals performing the award, to include as appropriate, postdoctoral fellows, subcontractors, and sub-grantees, in determining 'covered individuals.'

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

Determine “covered individuals.”³¹ Six participating agencies (Air Force, DHS, DOE, Education, NASA, NIH) have designated a list of “covered individuals” that must provide disclosure information to the agency. These agencies included the list of covered individuals in the solicitation or proposal instructions. For example, DOE’s solicitation specifies that consultants, graduate students, and postdoctoral associates are all considered covered individuals if they hold significant roles in the project. In another example, Air Force’s proposal submission instructions specify that covered individuals include key personnel such as direct employees, subcontractors, or consultants.

Two agencies (DOT, NOAA) partially incorporated this practice. NOAA includes a list of covered individuals in its due diligence plan, but the plan is an internal policy document to which applicants do not have access. NOAA’s materials for applicants, such as the solicitation, do not include this list. Similarly, DOT provides guidance on designating covered individuals—referred to as key personnel—in its due diligence plan, but this guidance is not in DOT’s materials for applicants. NOAA officials explained that due to staffing challenges they have not incorporated this practice and that they are working to incorporate it in the future. Further, DOT officials acknowledged that applicant materials do not include definitions of either key personnel or covered individuals.

Two participating agencies (EPA, USDA) minimally incorporated this practice. In interviews, these agencies described a list of designated covered individuals for their respective agencies but have not outlined

³¹In general, the term “covered individual” means an individual who (A) contributes in a substantive, meaningful way to the scientific development or execution of a R&D project proposed to be carried out with a R&D award from a federal research agency; and (B) is designated as a covered individual by the federal research agency concerned. The SBA best practice says that each agency should designate additional covered individuals applicable to its program(s).

these designations for applicants or program staff. EPA officials told us that their designation of covered individuals has changed since the first year of the due diligence program. According to officials, EPA's designation now includes all employees of a potential awardee instead of just the principal investigator and the business representative. However, this designation is neither documented in EPA's policies nor available to applicants. EPA officials stated that because the standardized disclosures are not required for all EPA SBIR applicants, they believed that the agency's designation of covered individuals did not need to be in applicant-facing materials.

USDA officials told us they consider covered individuals or "key personnel" to include subcontractors, but the agency's solicitation and award terms and conditions do not specify subcontractors in the definition of covered individuals. USDA officials stated that applicants should understand that subcontractors are included as covered individuals because they perform part of an award.

NSF has not determined its list of designated key personnel as covered individuals. We previously reported in November 2023 that NSF had intended to clarify this, but as of July 2025, the agency has not done so.³² NSF officials stated that, for the purposes of foreign influence, all senior personnel are considered covered individuals. However, we found that this designation is neither documented in agency due diligence procedures nor available to applicants.

The SBA best practice notes that agencies are encouraged to consider the full range of individuals performing the award to minimize possible risks and include, as appropriate, postdoctoral fellows, subcontractors, or subgrantees as designated covered individuals. Federal internal controls also state that agencies should define information requirements clearly, in a specific and measurable way, where specific terms are fully and clearly set forth so they can be easily understood. A clear designation of covered individuals can help ensure that agencies are aware of the full scope of individuals performing the work and applicants are aware of who is required to provide foreign disclosures to identify possible risks.

³²[GAO-24-106400](#).

Agencies Have Taken Some Steps to Mitigate the Reporting Burden and Refer Risks to Other Authorities



Mitigate disclosure reporting burden

Leverage established reporting processes to capture updates to due diligence disclosures—such as requiring awardees to submit updated disclosures within 30 days of a substantive change—to reduce administrative burden for small businesses.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

A few agencies have taken steps to mitigate the disclosure reporting burden and make referrals to enforcement authorities. We found most agencies have yet to make such referrals because risks have not risen to the level of requiring further action.

Mitigate disclosure reporting burden. Three agencies (DOE, DOT, NIH) have incorporated SBA's recommended steps to minimize updates to disclosure reporting.³³ NIH has incorporated several steps to minimize updates including (1) establishing a process for collecting unrelated updates (e.g., approval dates for human subject research) to the application without triggering a request to update the disclosure form; (2) requiring updates to the disclosure forms only when there is a change (e.g., a potential change in foreign affiliation or relationships to a foreign country) in the award that needs to be assessed; and (3) requiring the awardee to submit the updated disclosure within 30 days of a change as suggested by the SBA best practice.

The remaining eight agencies (Air Force, DHS, Education, EPA, NASA, NOAA, NSF, USDA) have partially incorporated this practice. These agencies have taken some of the recommended steps, such as requiring an updated disclosure form for Phase II awards. For example, EPA requires the disclosure form once for Phase I awardees and twice for Phase II awardees—once at the time of award and again after completion of year one of the contract—given its longer time frame and higher funding thresholds.

However, all eight agencies do not specify that updated disclosures must be provided within 30 days of any substantive changes to the project, as indicated by the best practice. DHS and NASA officials stated they had missed the 30-day portion of this best practice and plan to incorporate that wording in future solicitation cycles. EPA officials stated that this practice has not been a focus for its SBIR program, but they would consider incorporating it in the future. NOAA officials explained that due to staffing challenges, they have not incorporated this practice but will consider doing so in the future. Air Force officials had a different

³³This SBA best practice includes several steps to minimize requests to update the disclosure form. First, it states agencies should limit disclosure form updates during Phase I awards due to the shorter time frame and lower funding thresholds. Second, agencies should prioritize updates during Phase II such as requiring due diligence disclosure updates prior to award. Lastly, the best practice says agencies should require updates to disclosure forms to occur within 30 days of any changes with covered individuals or any other substantive change in circumstance.

understanding of the 30-day requirement, and they noted that they could adjust their policy documents to better align with the best practice.

According to NSF officials, the reporting burden for this practice outweighs the benefits since NSF already (1) reevaluates awardee ownership each time additional funding is considered and (2) has enhanced its reporting and certifications requirements for Phase II awards. In addition, USDA officials told us they previously understood the 30-day reporting requirement could be communicated in webinars. But the officials agreed with our observation and noted that USDA could update the upcoming solicitation and award terms and conditions to include this information. Education did not provide a rationale for its lack of incorporation of the 30-day timeframe.

SBA's best practice further states that agencies should require due diligence disclosure reporting to occur within 30 days of changes with covered individuals and any other substantive changes in circumstances. The Extension Act also requires awardees to report any changes to the required disclosures on foreign ownership and covered individuals throughout the duration of the award.³⁴ Incorporating information to provide a clear reporting timeframe would help ensure small businesses are providing timely updates to agencies during periods that may require renewed due diligence or otherwise introduce risk.



Make referrals to appropriate enforcement authorities

Evaluate if alternative authorities exist or further action is necessitated to adequately address any risks identified through the agency's due diligence processes.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

Make referrals to appropriate enforcement authorities. Three agencies (Air Force, NASA, NSF) have established processes and made referrals to enforcement authorities based on adverse information resulting from due diligence activities. For example, Air Force officials told us that between March 2023 and June 2025, they referred 321 individual proposals to the Air Force Office of Special Investigations for counterintelligence reasons. One example of a referral provided by officials indicated that due diligence had identified business relationships with a foreign country of concern for a Phase II applicant. NSF referred a request to its Office of Inspector General for guidance concerning an applicant that had emails originating from a foreign email address though the entity had a U.S. zip code.

In addition, eight participating agencies (DHS, DOE, DOT, Education, EPA, NIH, NOAA, USDA) have taken steps to establish processes for

³⁴The Extension Act's foreign disclosure requirements and related requirements to report changes are codified at 15 U.S.C. § 638(g)(13) and (g)(17), respectively.

making referrals to enforcement authorities or initiating further action if adverse information results from due diligence. For example, DHS, DOE, and NOAA officials described steps program staff would take to submit adverse due diligence findings to alternative authorities within their respective agencies. EPA's due diligence plan outlines steps for documenting adverse findings with its Office of National Security, and officials told us they share this information with EPA's Office of Inspector General. These eight agencies explained that, as of July 2025, they have yet to make such referrals because risks have not risen to the level of requiring further action. Therefore, we did not assess this practice at this time.

Most Agencies Assess Small Businesses' Cybersecurity Practices, but Two Do Not

Most participating agencies and the selected components we reviewed assessed cybersecurity practices of small business applicants and aligned their assessment to federal cybersecurity frameworks.³⁵

The Extension Act specifically required each agency to assess, using a risk-based approach as appropriate, the cybersecurity practices of a small business applicant.³⁶ Additionally, one of the SBA best practices also states that the agencies' assessment of cybersecurity practices should (1) focus on basic small business safeguarding protocols and (2) remain consistent with federal cybersecurity frameworks. The best practice provided two such examples: the Federal Acquisition Regulation (FAR) 52.204-21 Basic Safeguarding of Covered Contractor Information Systems and National Institute of Standards and Technology (NIST) Small Business Information Security: The Fundamentals.³⁷

We found nine of the 11 participating agencies and selected components we reviewed (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NOAA) assessed small business applicants' cybersecurity practices by

³⁵We neither evaluated the effectiveness of the assessment methods—business intelligence tools or processes—nor independently examined the extent to which the assessments align to a federal cybersecurity framework.

³⁶The other areas agencies are required to include in their due diligence analysis are patent analysis, employee affiliations, and foreign ownership.

³⁷See Federal Acquisition Regulation 52.204-21 *Basic Safeguarding of Covered Contractor Information Systems* (November 2021) and National Institute of Standards and Technology, *Small Business Information Security: The Fundamentals* NISTIR 7621 Revision 1 (November 2016). In 2024, NIST updated its guidance to industry, government agencies, and other organizations for managing cybersecurity risks—another optional cybersecurity framework for such assessments. For additional information, see National Institute of Standards and Technology, *The NIST Cybersecurity Framework* (CSF) 2.0 (February 26, 2024).

using a variety of mechanisms, including business intelligence tools and self-assessment forms. Two remaining agencies (NSF and USDA) do not.

- **Business intelligence tools.** Eight agencies (Air Force, DHS, DOT, Education, EPA, NASA, NIH, NOAA) reported using business intelligence tools to assess small business applicants' cybersecurity practices. Six of these agencies (Air Force, DHS, DOT, EPA, NASA, NOAA) use a specific tool that collects, processes, and analyzes data from externally observable sources to help inform agencies' award decisions.³⁸ For example, the tool analyzes data from a small business' IT footprint and provides a cybersecurity score. The score is a rating of an applicant's security posture, which may indicate, for example, the likelihood of a successful data breach or cyberattack at the small business. This score is based on a combination of 10 cyber risk factors, such as network security and social engineering.³⁹

Two additional agencies (Education, NIH) reported using other business intelligence tools in their cybersecurity assessments. Education officials stated that its supply chain risk management procedures include the use of an open-source intelligence tool that may provide cybersecurity vulnerability information to inform the agency's overall risk determination. For example, the standard operating procedures include considerations for cyber vulnerability risk through an analysis, impact rating, and probability rating based on the number of publicly known vulnerabilities and known threats. NIH reported using six different software tools that can provide information about a small business, such as its exposure risk of unauthorized access to usernames or internet protocol traffic. At least one of the tools allows the agency to determine whether the small business is affiliated with certain countries, which may reveal if an applicant's internet protocol address operates from a foreign country of concern.

- **Self-assessment forms.** Three of the nine agencies (DOE, NIH, NOAA) collect information from applicants to assess the cybersecurity

³⁸Externally observable data assessments are conducted without requiring access to an organization's internal networks or systems.

³⁹According to one business intelligence tool report, the network security factor is one of 10 factors that provide a cybersecurity score based on evidence of high risk or insecure open ports within the company network. Another factor—the social engineering factor—provides a cybersecurity score based on the potential susceptibility of an organization to a targeted social engineering attack. The remaining eight factors are as follows: application security, cubit score, domain name system health, endpoint security, hacker chatter, informational leak, internet protocol reputation, and patching cadence.

practices of the small business.⁴⁰ For example, DOE requires applicants to complete a cybersecurity self-assessment form to inform DOE's consideration of their cybersecurity practices, such as leadership responsible for cybersecurity, asset inventories, and the prevention of using default passwords. The form instructs applicants to examine their current cybersecurity practices and determine if the required cybersecurity performance goals are implemented.⁴¹ In addition, NIH and NOAA require applicants to complete a questionnaire that asks whether the small business' IT and information safeguarding plan ensures that it is applying basic cybersecurity protocols.



Ensure cybersecurity requirements are aligned with federal frameworks

Agency cybersecurity assessments should focus on basic small business safeguarding protocols and remain consistent with federal cybersecurity frameworks.

Source: GAO analysis of agency information; toonsteb/adobestock.com (icons). | GAO-26-107972

Ensure cybersecurity requirements are aligned with federal frameworks

Ensure cybersecurity requirements are aligned with federal frameworks. As shown in figure 3, nine participating agencies and selected components (Air Force, DHS, DOE, DOT, Education, EPA, NASA, NIH, NOAA) aligned their cybersecurity assessments (i.e., business intelligence tools and self-assessment forms) with federal requirements and cybersecurity frameworks, in accordance with SBA's best practice.⁴²

Six of these agencies (Air Force, DHS, DOT, EPA, NASA, NOAA) reported using a business intelligence tool that aligned with federal requirements and cybersecurity frameworks. For some of these agencies, the business intelligence tool they use was originally deployed by the Air Force's Office of Commercial and Economic Analysis (OCEA).⁴³ In June 2025, OCEA conducted an analysis of the tool and determined that it aligned with federal requirements and federal cybersecurity frameworks,

⁴⁰DOE officials told us they also use business intelligence tools to collect information on other risk areas but not for assessing cybersecurity practices because the information generated is not useful for their purposes.

⁴¹According to DOE officials, the cybersecurity performance goals are a set of baseline cybersecurity best practices aimed at protecting the unauthorized disclosure of sensitive information. The DOE SBIR/STTR Cybersecurity Self-Assessment is reprinted in app. II.

⁴²NIH reported they use a variety of tools to assess applicants' cybersecurity practices. One assessment method—a self-assessment required of applicants—does align to a federal cybersecurity framework. For Education, we found it also uses a different tool to assess its applicants' cybersecurity practices. Education uses an open-source intelligence tool to gather information on applicants' cybersecurity vulnerabilities, and the agency provided documentation that the tool aligns to federal frameworks such as NIST 800-53, Rev. 5.

⁴³According to Air Force officials, there are some inherent limitations with the business intelligence tool in that it cannot identify internal assets or internally focused strategies or plans (e.g., a business' overall risk management strategy or incident response plans).

such as FAR and NIST. For example, OCEA reported that the business intelligence tool included a scoring process that aligned with the 15 mandated security controls listed in the FAR 52.204-21, such as identifying, reporting, and correcting information and information system flaws in a timely manner.⁴⁴ In addition, OCEA also indicated that the tool aligned with the NIST cybersecurity framework's identify, protect, and detect functions.⁴⁵

Three agencies (DOE, NIH, NOAA) aligned their required self-assessment forms for applicants with a federal cybersecurity framework. For example, DOE's cybersecurity self-assessment form for applicants uses a subset of the Cybersecurity and Infrastructure Agency's Cybersecurity Performance Goals which links each assessment question to NIST's *Security and Privacy Controls for Information Systems and Organizations*—another federal cybersecurity framework.⁴⁶ Specifically, one example from DOE's form requires that small businesses prevent the use of default passwords to stop threat actors from achieving initial access or moving laterally in a network.

Furthermore, some agencies (Air Force, DHS, DOT, Education, NASA, NIH) told us they include contract clauses, provisions, or deliverables to, in part, align contract or award requirements with federal cybersecurity frameworks. For example, DOT's due diligence plan states that the SBIR program will implement Transportation Acquisition Regulations through contract language within Phase I and II contracts. Specifically, the contract language includes requirements for data jurisdiction and adverse cyber event reporting. DOT officials stated that the use of contract language is one way to ensure a small business is aligned with a federal cybersecurity framework. In another example, NASA requires awardees to submit a system security plan that aligns with several federal cybersecurity frameworks.

However, two agencies (NSF, USDA) have not assessed the cybersecurity practices of small businesses; nor have they shown how

⁴⁴See Federal Acquisition Regulation 52.204-21 *Basic Safeguarding of Covered Contractor Information Systems* (November 2021).

⁴⁵See National Institute of Standards and Technology, *Framework for Improving Critical Infrastructure Cybersecurity* 1.1 (April 16, 2018).

⁴⁶National Institute of Standards and Technology, *Security and Privacy Controls for Information Systems and Organizations*, NIST SP 800-53 Rev. 5 (September 2020). The DOE SBIR/STTR Cybersecurity Self-Assessment is reprinted in app. II.

such an assessment would be aligned to a federal cybersecurity framework.

NSF officials told us that NSF's applicants are small and nascent companies with limited electronic assets or systems to protect. The agency explained that the program directors address cybersecurity concerns by asking questions or requesting documentation from applicants, as necessary. However, NSF did not document how program directors review small businesses' cybersecurity practices, whether the outcomes of that review are tracked, or the extent to which the program directors' assessment methods align with a federal cybersecurity framework.

USDA has access to a business intelligence tool that provides a cybersecurity grade for its applicants, but officials noted that they do not find the information useful and do not use it as a deciding factor for awards. These officials explained that their understanding was that the training of applicants would satisfy the requirement to assess the cybersecurity practices. USDA officials also stated that interagency discussions did not emphasize the importance of aligning cybersecurity assessments with federal frameworks. While training and education are two aspects of a cybersecurity control, those activities alone do not constitute a measure for assessing cybersecurity practices.

Until NSF and USDA incorporate cybersecurity assessments that are aligned with federal requirements and federal cybersecurity frameworks into their due diligence programs, the agencies are at an increased risk of making awards to small businesses that are vulnerable to cyberattack, including the theft of federally funded intellectual property.

SBA Could Leverage Interagency Meetings to Clarify Due Diligence Best Practices and Discuss Challenges Implementing Them

SBA conducts several information sharing meetings for agencies to discuss due diligence efforts, but we found agencies have gaps in how they have incorporated SBA's best practices for due diligence programs to manage and reduce foreign risks. For example, some agencies are not incorporating certain best practices because, in part, they lack clarity on the intent of the practice or the best means to incorporate it. SBA has not facilitated such discussions on agency gaps in implementing SBA's best practices for due diligence programs, which could help the agencies address possible risks.

SBA facilitates several interagency meetings to help participating agencies implement their SBIR and STTR programs. For example, after the enactment of the Extension Act in September 2022, SBA established

SBA-facilitated meetings



Examples of discussion topics:

- Impact of due diligence requirements on the SBIR/STTR program
- Potential for developing SBA-managed due diligence tools
- Frequency and nature of red flags identified in applications

Participating agencies:

All Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) agencies, and Small Business Administration (SBA)

Source: GAO; robu_s/adobestock.com (illustrations).
GAO-26-107972

weekly meetings, referred to as *program managers committee meetings*, to discuss the development of best practices and agencies' due diligence programs.⁴⁷ In addition, SBA also facilitates monthly meetings with all participating agencies, referred to as *program managers meetings*, to discuss due diligence, among other topics.⁴⁸ For example, one meeting agenda included opportunities for agencies to share due diligence information on implementing cybersecurity training and automating the collection of disclosures.⁴⁹

Furthermore, in January 2025, SBA established a bimonthly meeting, referred to as *due diligence meetings*, to have focused discussions on due diligence activities with all participating agencies.⁵⁰ At the inaugural meeting, participating agencies discussed topics such as approaches to educating small businesses, centralized due diligence tools, and the impacts of due diligence implementation (see sidebar). Officials from one agency (USDA) noted that participants also discussed the potential development of additional guidance on resources to carry out due diligence requirements. According to SBA officials, by March 2025, the discussion focus shifted away from agencies' implementation of due diligence programs and toward the SBIR and STTR programs' reauthorization legislation and its implications for agencies. SBA officials further noted that they anticipate reauthorization will be the primary focus of the due diligence meetings until the reauthorization bill is passed.

According to SBA officials, interagency meetings are the primary way participating agencies share information. Officials from some participating agencies and one selected component said these meetings were helpful for brainstorming ideas or leveraging the experience of other agencies in implementing due diligence programs.

⁴⁷According to SBA, these meetings ended in January 2024.

⁴⁸General topics discussed at these meetings include policy and reporting updates; outreach and communications to small businesses; and fraud, waste, and abuse.

⁴⁹In this review, we also found participating agencies that generally issue fewer awards for their SBIR and STTR programs (DHS, DOT, Education, EPA, USDA) hold monthly informal meetings without SBA to discuss issues and challenges unique to them, including due diligence. SBA officials noted they are aware of these meetings and the issues discussed and have explored options to help smaller agencies, such as helping agencies gain access to business intelligence tools.

⁵⁰SBA officials said they established these meetings in response to feedback from participating agencies.

Although the topics of these meetings address relevant aspects of the due diligence program, we found some agencies have gaps in their incorporation of SBA's best practices, as discussed in prior sections of this report. For example, we found some agencies are not incorporating certain best practices because, in part, they lack clarity on the intent of the practice or the best means to incorporate it. As noted previously, eight agencies (Air Force, DHS, Education, EPA, NASA, NOAA, NSF, USDA) have not specified that updated due diligence disclosures must be provided within 30 days of any substantive changes to the project, as stated in the SBA best practice. These agencies have provided a variety of reasons for not doing so to date, but a few have stated they are considering implementing this portion of the best practice going forward. Agencies may need SBA's emphasis on requiring these updates within 30 days as stated in the best practice.

In another example, DHS officials said they have not incorporated the "disclosure does not mean denial" best practice because including such a statement would be inaccurate. In their view, disclosure of such information could lead to a denial. NSF officials told us they have not incorporated this best practice because doing so seemed redundant relative to other parts of the due diligence process. In these cases, it appears DHS and NSF officials have a different understanding of how best to convey the message of this best practice. According to SBA's best practice, it is to assure applicants are aware that disclosure of foreign investment or involvement does not independently disqualify them from receiving an award.

SBA officials told us they have had conversations with agencies on the best practices; however, in our discussions with participating agencies, officials from a few agencies said that additional discussion at SBA-facilitated meetings or additional guidance on these best practices would be helpful. The Extension Act requires participating agencies to incorporate applicable best practices in their due diligence programs to the extent practicable.⁵¹ SBA is responsible for issuing policy directives and assisting participating agencies in implementing the SBIR and STTR programs, including the due diligence activities. According to the SBIR and STTR Policy Directive, SBA can make recommendations for improvement of participating agencies' SBIR and STTR programs through its program managers meetings. For example, the Policy Directive states that SBA can make recommendations on a best practice currently being

⁵¹Pub. L. No. 117-183, § 4(b)(2)(A),136 Stat. 2180, 2182.

incorporated by an agency or provide open discussion and feedback on potential best practices for agency adoption.⁵²

SBA officials acknowledged that based on observed implementation gaps and agency needs that we identified in this report, additional opportunities may exist for SBA to engage with agencies regarding challenges and impacts of incorporating the best practices and due diligence programs. Such discussions may also provide insights for possible revisions to the practices. By further leveraging its interagency meetings to facilitate such discussions, SBA could better assist agencies to (1) incorporate best practices, (2) identify implementation gaps and possible solutions, and (3) share best practices among agencies to help them better address the risks they face in implementing their SBIR and STTR programs.

Conclusions

Small businesses can expose U.S. federally funded R&D to foreign security risks, especially as certain foreign governments are actively working to illicitly acquire the most advanced U.S. technologies. SBIR and STTR participating agencies have taken steps to identify and mitigate possible foreign risks through their implementation of the due diligence programs to address security risks posed by small business applicants and through incorporation of SBA's best practices for those programs.

However, we found gaps remain in most agencies' incorporation of the full scope of these best practices. Furthermore, some agency officials noted that additional discussion or guidance on the practices in SBA-facilitated interagency meetings could be helpful. Such discussions could also provide clarity on the practices' intent and how best to implement them. By leveraging its interagency forums to discuss these practices more frequently and in greater detail, SBA could help agencies improve their due diligence programs and protect against potential security risks from nefarious foreign actors.

Recommendations for Executive Action

We are making 26 recommendations to 11 agencies: one to the Air Force, two to DHS, one to DOE, one to DOT, one to Education, three to EPA, one to NASA, four to NOAA, seven to NSF, one to SBA, and four to USDA. Specifically:

The Secretary of Air Force should ensure the SBIR and STTR programs inform awardees in a written statement that updated disclosures must be

⁵²*Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Program Policy Directive* (May 3, 2023).

provided within 30 days of any substantive changes to the project.
(Recommendation 1)

The Secretary of Agriculture should ensure the agency consistently communicates that disclosure does not mean denial to all its SBIR and STTR applicants through mechanisms such as disclosure form itself, the agency solicitation, or on a website as part of the application process.
(Recommendation 2)

The Secretary of Agriculture should ensure the agency clearly outlines its designation of “covered individuals” that is available to SBIR and STTR applicants and program staff to ensure consistent access and understanding.
(Recommendation 3)

The Secretary of Agriculture should ensure the SBIR and STTR programs inform awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.
(Recommendation 4)

The Secretary of Agriculture should assess SBIR and STTR applicants’ cybersecurity practices, ensuring these assessments focus on basic small business safeguarding protocols and remain consistent with federal cybersecurity frameworks.
(Recommendations 5)

The Secretary of Education should ensure the SBIR program informs awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.
(Recommendation 6)

The Secretary of Energy should update its current SBIR and STTR due diligence plan—*DOE Approach to SBIR/STTR Due Diligence*—to include the agency’s risk-based approach for conducting due diligence, such as tiered levels of risk based on award phase and the process for identifying higher-risk topics before they are posted.
(Recommendation 7)

The Secretary of Homeland Security should ensure the agency consistently communicates that disclosure does not mean denial to all its SBIR applicants through mechanisms such as disclosure form itself, the agency solicitation, or on a website as part of the application process.
(Recommendation 8)

The Secretary of Homeland Security should ensure the SBIR program informs awardees in a written statement that updated disclosures must be

provided within 30 days of any substantive changes to the project. (Recommendation 9)

The Secretary of Transportation should ensure the agency clearly outlines its designation of “covered individuals” that is available to SBIR and STTR applicants and program staff to ensure consistent access and understanding. (Recommendation 10)

The Administrator of the Environmental Protection Agency should update its current SBIR due diligence plan—*EPA’s SBIR Program Overview and Guidance Manual*—to reflect the factors considered in documenting the agency’s risk-based approach. (Recommendation 11)

The Administrator of the Environmental Protection Agency should ensure the agency clearly outlines its designation of “covered individuals” that is available to SBIR applicants and program staff to ensure consistent access and understanding. (Recommendation 12)

The Administrator of the Environmental Protection Agency should ensure the SBIR program informs awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project. (Recommendation 13)

The Administrator of the National Aeronautics and Space Administration should ensure its SBIR and STTR programs inform awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project. (Recommendation 14)

The Director of the National Science Foundation should compile and track metrics on the impact of the SBIR and STTR due diligence requirements on award timeliness. (Recommendation 15)

The Director of the National Science Foundation should conduct due diligence on applicant cybersecurity practices for all new SBIR and STTR awards and develop a consistent method to track its due diligence activities. (Recommendation 16)

The Director of the National Science Foundation should ensure the agency consistently communicates that disclosure does not mean denial to all its SBIR and STTR applicants through mechanisms such as the disclosure form itself, the agency solicitation, or on a website as part of the application process. (Recommendation 17)

The Director of the National Science Foundation should update its current SBIR and STTR due diligence plan—*NSF Updated Procedures for Risk-Based Due Diligence*—to include its risk-based approach and procedures for conducting risk assessment in the four Extension Act areas (patent analysis, foreign ownership, employee affiliations, and cybersecurity). (Recommendation 18)

The Director of the National Science Foundation should ensure the agency clearly outlines its designation of “covered individuals” that is available to SBIR and STTR applicants and program staff to ensure consistent access and understanding. (Recommendation 19)

The Director of the National Science Foundation should ensure the SBIR and STTR program informs awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project. (Recommendation 20)

The Director of the National Science Foundation should assess SBIR and STTR applicants’ cybersecurity practices, ensuring these assessments focus on basic small business safeguarding protocols and remain consistent with federal cybersecurity frameworks. (Recommendations 21)

The Under Secretary for Oceans and Atmosphere should direct the National Oceanic and Atmospheric Administration to encourage SBIR award recipients and applicants to leverage available federal research security training. (Recommendation 22)

The Under Secretary for Oceans and Atmosphere should ensure the National Oceanic and Atmospheric Administration consistently communicates that disclosure does not mean denial to all its SBIR applicants through mechanisms such as disclosure form itself, the agency solicitation, or on a website as part of the application process. (Recommendation 23)

The Under Secretary for Oceans and Atmosphere should ensure the National Oceanic and Atmospheric Administration SBIR program clearly outlines its designation of “covered individuals” that is available to applicants and program staff to ensure consistent access and understanding. (Recommendation 24)

The Under Secretary for Oceans and Atmosphere should ensure the National Oceanic and Atmospheric Administration informs SBIR awardees in a written statement that updated disclosures must be

provided within 30 days of any substantive changes to the project.
(Recommendation 25)

The Administrator of the Small Business Administration should further leverage its SBIR and STTR interagency meetings and communications to facilitate discussions on due diligence best practices, including clarifying the intent of the practices and discussing implementation methods to help agencies address their gaps in incorporating the practices. (Recommendation 26)

Agency Comments

We provided a draft of this report to Commerce, DHS, DOD, DOE, DOT, Education, EPA, HHS, NASA, NSF, SBA, and USDA for review and comment. Commerce, DHS, DOD, DOE, DOT, Education, EPA, NASA, NSF, and USDA concurred with our recommendations, and their written responses are reprinted in appendices III through XII. In an email response on December 18, 2025, SBA officials stated their concurrence with our recommendation to SBA. DOE, DOT, HHS, NASA, NSF, and SBA also provided technical comments, which we incorporated as appropriate. For example, SBA stated in its technical comments that the report suggests that SBA is responsible for addressing the gaps in agencies' incorporation of the due diligence best practices. We agree that participating agencies are responsible for addressing these gaps. We adjusted language in the report to clarify that SBA could leverage its interagency meetings to help agencies address their gaps in incorporating SBA's best practices.

We are sending copies of this report to the appropriate congressional committees; the Secretaries of Agriculture, Commerce, Defense, Education, Energy, Health and Human Services, Homeland Security, and Transportation; the Administrators of the SBA, EPA, and NASA; the Director of the NSF; and other interested parties. In addition, the report is available at no charge on the GAO website at <http://www.gao.gov>.

If you or your staff have any questions about this report, please contact me at wrightc@gao.gov. Contact points for our Offices of Congressional Relations and Public Affairs may be found on the last page of this report. GAO staff who made key contributions to this report are listed in appendix XIII.

//SIGNED//

Candice N. Wright
Director, Science, Technology Assessment, and Analytics

List of Committees

The Honorable Roger Wicker
Chairman
The Honorable Jack Reed
Ranking Member
Committee on Armed Services
United States Senate

The Honorable Joni Ernst
Chair
The Honorable Ed Markey
Ranking Member
Committee on Small Business and Entrepreneurship
United States Senate

The Honorable Mike Rogers
Chairman
The Honorable Adam Smith
Ranking Member
Committee on Armed Services
House of Representatives

The Honorable Brian Babin
Chairman
The Honorable Zoe Lofgren
Ranking Member
Committee on Science, Space, and Technology
House of Representatives

The Honorable Roger Williams
Chairman
The Honorable Nydia M. Velázquez
Ranking Member
Committee on Small Business
House of Representatives

Appendix I: Objectives, Scope, and Methodology

The SBIR (Small Business Innovation Research) and STTR (Small Business Technology Transfer) Extension Act of 2022 includes provisions for GAO to issue a series of reports on the implementation and best practices of agencies' due diligence programs to assess security risks presented by small businesses seeking a federally funded award.¹ This report, the third in the series, examines (1) the extent to which agencies are incorporating the Small Business Administration's (SBA) best practices for the SBIR and STTR due diligence programs; (2) the extent to which agencies assess cybersecurity practices of small businesses seeking SBIR and STTR awards; and (3) the mechanisms that exist for agencies to share information on practices, risks, and challenges in their SBIR and STTR due diligence programs.

The scope of work includes the SBA and the 11 participating agencies.² For the five agencies with more than one component that issues SBIR and STTR awards, we selected the component that issues the highest volume of awards annually based on fiscal year (FY) 2023 award data, which were the most complete data available at the time of our review. Specifically, we focused on the Department of the Air Force in the Department of Defense (DOD), the National Institutes of Health (NIH) in the Department of Health and Human Services (HHS), and the National Oceanic and Atmospheric Administration (NOAA) in the Department of Commerce (Commerce). We refer to these three component entities throughout the report inclusively in our "participating agencies" (i.e., Air Force, NIH, and NOAA).

In addition, the Science and Technology Directorate in the Department of Homeland Security (DHS) and the Office of Science in the Department of Energy (DOE) both issue the most SBIR and STTR awards for their agencies and oversee these programs on behalf of other components in their agencies; therefore, we refer to the parent agency (DHS and DOE, respectively) in our collective "participating agencies."³

¹Pub. L. No. 117-183, § 4, 136 Stat. 2180, 2183.

²In this report, we refer to the agencies that issue SBIR and STTR awards as "participating agencies." Six agencies participated in STTR at the time of our review.

³DHS' Science and Technology Directorate provides agencywide guidance, policies, and procedures for DHS' SBIR and STTR awarding components. Similarly, DOE's Office of Science coordinates policies and procedures for all the SBIR and STTR awarding DOE components except for the Advanced Research Projects Agency-Energy.

The remaining six participating agencies issue SBIR and STTR awards through a single component, and for these six we refer to the entire agency as the participating agency (e.g., the U.S. Department of Agriculture [USDA]). In addition, to characterize agency responses to our inquiry, we use “few” to refer to one to three, “some” to refer to four to seven, and “most” to refer to eight to 10 agency responses.

To address our first objective, we collected and analyzed the following information:

- SBA’s Best Practices for Federal Agencies SBIR and STTR Due Diligence Programs, developed in coordination with the Office of Science and Technology Policy and in consultation with the Committee on Foreign Investment in the United States and finalized in March 2023;
- Agencies’ SBIR and STTR due diligence program policies and procedures, including internal agency documents such as the due diligence plan, review checklists, and agency tracking documents (i.e., spreadsheets, snapshots of dashboards and automated systems), as well as applicant-facing materials such as the solicitation, notices, and award terms and conditions; and
- Agencies’ outreach materials such as websites, newsletters, e-mail communications, and webinar materials.

We also interviewed agency officials about the steps they took to incorporate the best practices. Based on our review of documents and interviews, we determined whether each SBA best practice was incorporated, partially incorporated, minimally incorporated, or not incorporated. The team analyzed the best practices and determined (1) the level of evidence required for each best practice; (2) the number of elements within each best practice; and (3) the elements required for each best practice. We then developed the following categories to determine whether an agency had incorporated each best practice:

- incorporated—the agency provided evidence that it largely addressed all of the elements of the best practice;
- partially incorporated—the agency provided evidence that it had addressed more than one element of the best practice;
- minimally incorporated—the agency provided evidence that it had addressed at least one element in the best practice; or

- not incorporated—the agency did not provide evidence that it had addressed any of the elements in the best practice.⁴

We also reviewed agencies' practices against federal internal control standards for documenting guidance and defining objectives where applicable.⁵

To address our second objective, we identified criteria from the Extension Act and from the SBA best practices that related to the assessment of cybersecurity practices of small businesses. We developed semi-structured questions for each of the 11 participating agencies or selected components on how (1) each agency assesses the cybersecurity practices of small businesses seeking SBIR and STTR awards and (2) ensures their assessments align with federal cybersecurity frameworks. We reviewed those responses and requested information on the specific methods used to assess applicants' cybersecurity practices.

We also collected documents on the methods used, such as business tool scorecards, self-assessment documents, and trackers. Furthermore, we interviewed agency officials and reviewed agency documentation to determine whether the agencies assessed cybersecurity practices. For alignment with federal frameworks, we interviewed agency officials regarding the federal frameworks with which their assessments aligned, and we collected associated documentation.⁶ In doing so, we determined the extent to which each agency assesses the cybersecurity practices for small businesses and how each agency has aligned their selected assessment process with federal cybersecurity requirements or frameworks.⁷

⁴For one best practice—make referrals to appropriate enforcement authorities—we determined it was not feasible to assess this practice for agencies that had not yet made a referral under the agency's process for doing so.

⁵GAO, *Standards for Internal Control in the Federal Government*, [GAO-25-107721](#) (Washington, D.C.: May 15, 2025).

⁶Based on our review of National Institute of Standards and Technology (NIST) Special Publication 800-53r5, GAO has determined that agencies solely encouraging or requiring cybersecurity education and training alone does not constitute sufficient evidence of the agency conducting or implementing assessments of small businesses' cybersecurity practices for applicants seeking an award.

⁷We did not assess the effectiveness of these assessment methods (i.e., business intelligence tools or processes), nor the implementation of them. Furthermore, GAO did not independently assess the alignment of the assessment methods (i.e., business tools or processes) to a federal cybersecurity framework.

To address our third objective, we interviewed participating agencies' officials on the types of mechanisms available for them to exchange information on their SBIR and STTR programs with other participating agencies. For example, agencies discussed information sharing methods such as SBA-facilitated meetings, meetings of agencies with smaller SBIR and STTR budgets, and ad hoc interagency communications. We also obtained and reviewed agendas for SBA-facilitated program manager and due diligence meetings to determine the frequency and content of discussions surrounding SBA's due diligence best practices. We interviewed SBA officials about the best practices they disseminated in March 2023. We also asked participating agency officials about their views on the discussions of the best practices in the SBA-facilitated meetings and the potential need for additional discussions on the best practices.

We conducted this performance audit from December 2024 to January 2026 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

Appendix II: Department of Energy's Small Business Innovation Research and Small Business Technology Transfer Programs Applicant Cybersecurity Self-Assessment

In this section we provide an example of an approach used by participating agencies to obtain information directly from small business applicants on their cybersecurity practices—a self-assessment completed by small businesses to help agencies assess cybersecurity practices during their due diligence reviews. Below is a form used by Department of Energy (DOE) to obtain such information from Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) program applicants.

DOE requires most applicants for its SBIR and STTR awards to complete this self-assessment form. The form uses a subset of the Cybersecurity and Infrastructure Agency's Cybersecurity Performance Goals, which links each assessment question to a federal cybersecurity framework—the National Institute of Standards and *Technology's Security and Privacy Controls for Information Systems and Organizations* (NIST SP 800-53). This form is reproduced below with DOE permission.

The DOE SBIR/STTR Cybersecurity Self-Assessment

The SBIR and STTR Extension Act of 2022 requires agencies to implement and establish a due diligence program to assess the security risks of SBIR/STTR applicants & awardees. In response to this requirement, the DOE SBIR/STTR Office has created a self-assessment from a subset of Cross Sector Cybersecurity Performance Goals (CPGs) developed by the Cybersecurity and Infrastructure Security Agency (CISA) which are aligned with the National Institute of Standards and Technology (NIST) Cybersecurity Framework (CSF). Applicants are highly encouraged to review additional training/guidance for each CPG on our website: [SBIR Introduction to Cybersecuri... | U.S. DOE Office of Science\(SC\) \(osti.gov\)](#)

Cybersecurity Self-Assessment Instructions:

Applicants who possess an active Cybersecurity (CS) Maturity Model Certification (CMMC) Level 2 or 3 meet/exceeds the DOE CS Self-Assessment requirement for SBIR/STTR grants. These applicants may opt out from completing the self-assessment by selecting the applicable CMMC certification level found on the top of the form and **attaching a copy of the CMMC Certification to their application**. Applicants who have CMMC Certification Level 1 or do not possess a CMMC must complete the DOE CS Self-Assessment requirement to be considered for SBIR/STTR awards. For more information regarding CMMC Certification please visit this website: [Chief Information Officer > CMMC \(defense.gov\)](#)

Applicants please examine your current CS business practices and complete the self-assessment. Then submit the self-assessment with your application. The DOE SBIR/STTR Office will assign a CS Risk Rating to the applicant which will be used as part of the risk assessment.

Select only one of the following responses for each CPG:

- **Implemented:** The small business applicant currently has the CS business practice fully implemented. The appropriate security controls and processes are used to mitigate CS risks associated with the research and/or development of the SBIR/STTR funding opportunity.
- **In Progress:** The CS business practice is not fully implemented; however, actions are being taken to meet full compliance. The appropriate security controls and processes (at least half) have been implemented.
- **Not Started:** The small business applicant has not started on the implementation of the CS business practice.

Existing Cybersecurity Certification: Cybersecurity Maturity Model Certification (CMMC) 2.0

- Level 2
- Level 3

DOE SBIR/STTR Cybersecurity Self-Assessment:

1.B Organizational Cybersecurity Leadership (Critical)	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business should identify a leader who is responsible and accountable for cybersecurity within an organization.</p> <p>Related NIST SP 800-53 Control(s): PM-2</p>	<ul style="list-style-type: none"><input type="radio"/> Not Started<input type="radio"/> In Progress<input type="radio"/> Implemented

1.A Asset Inventory (Critical)	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: MEDIUM</p> <p>DOE Requirement: The small business should create an asset inventory to identify authorized/unauthorized use of any digital service or device that is not formally approved and supported by the IT department, unmanaged/managed assets, and rapidly detect and respond to new vulnerabilities.</p> <p>Related NIST SP 800-53 Control(s): CM-8, CM-8(7) CM-2, CM-7, CM-9, CM-10, CM-11, CM-13, CP-2, CP-9, MA-2, MA-6, PE-20, PL-9, PM-5, SA-4, SA-5, SI-2, SR-4</p>	<ul style="list-style-type: none"><input type="radio"/> Not Started<input type="radio"/> In Progress<input type="radio"/> Implemented

2.A Change Default Passwords (Critical)	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: MEDIUM</p> <p>DOE Requirement: The small business should prevent threat actors from using default passwords to achieve initial access or to move laterally in a network.</p> <p>Related NIST SP 800-53 Control(s): IA-5(1)</p>	<ul style="list-style-type: none"><input type="radio"/> Not Started<input type="radio"/> In Progress<input type="radio"/> Implemented

2.L Secure Sensitive Data (Critical)	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: MEDIUM</p> <p>DOE Requirement: The small business should protect sensitive information from unauthorized access.</p> <p>Securing sensitive data entails implementing all CPGs, however, to implement 2.L Secure Sensitive Data Critical CPG requirement, refer to 2.E Separating User and Privileged and 2.D Revoking Credentials for Departing Employees. (The two CPGs are a subset of 2.L and will need to be fully implemented to meet 'Critical' requirement.)</p> <p>Related NIST SP 800-53 Control(s): AC-23, IA-4</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input checked="" type="checkbox"/> Implemented

2.E Separating User and Privileged Accounts (Critical)	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business should make it harder for threat actors to gain access to administrator or privileged accounts, even if common user accounts are compromised.</p> <p>Related NIST SP 800-53 Control(s): AC-2(7), AC-6(9), AC-6(10)</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input checked="" type="checkbox"/> Implemented

2.D Revoking Credentials for Departing Employees (Critical)	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: MEDIUM Complexity: LOW</p> <p>DOE Requirement: The small business should prevent unauthorized access to organizational accounts or resources by former employees.</p> <p>Related NIST SP 800-53 Control(s): AC-2(3), AC-2(1)</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input checked="" type="checkbox"/> Implemented

2.R System Backups (Critical)	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: MEDIUM</p> <p>DOE Requirement: The small business should secure data and reduce the likelihood/duration of data loss during loss of service, delivery, or operations.</p> <p>Related NIST SP 800-53 Control(s): CP-9, CP-9(1), CP-9(3)</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input checked="" type="checkbox"/> Implemented

2.B Minimum Password Strength	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business should create and use complex passwords that are harder for threat actors to guess or crack.</p> <p>Related NIST SP 800-53 Control(s): IA-5(1)</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

2.W No Exploitable Services on the Internet	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business should identify and monitor all assets, especially public-facing assets, and ensure unauthorized users cannot gain an initial system foothold by exploiting known weaknesses.</p> <p>Related NIST SP 800-53 Control(s): CM-7, CM-7(4), CM-7(5)</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

2.K Strong and Agile Encryption	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: MEDIUM</p> <p>DOE Requirement: The small business should deploy effective encryption to maintain confidentiality and integrity of sensitive data being processed, in transit or at rest.</p> <p>Related NIST SP 800-53 Control(s): SC-8, SC-12</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

2.I Basic Cybersecurity Training	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business' workforce should be trained in cybersecurity and be able to support CS behaviors.</p> <p>Related NIST SP 800-53 Control(s): AT-1, AT-2</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

2.H Phishing Resistant MFA	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: MEDIUM</p> <p>DOE Requirement: The small business should include additional layer(s) of security to protect assets accounts whose credentials have been compromised.</p> <p>Related NIST SP 800-53 Control(s): IA-2(1), IA-2(2)</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

2.M Email Security	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: MEDIUM Complexity: LOW</p> <p>DOE Requirement: The small business should reduce risk from common email-based threats, such as spoofing, phishing, and interception.</p> <p>Related NIST SP 800-53 Control(s): AT-2, SC-13, SC-8</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

2.G Detection of Unsuccessful (Automated) Login Attempts	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business should protect assets from automated, credential-based attacks.</p> <p>Related NIST SP 800-53 Control(s): AC-7</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

2.S Incident Response (IR) Plans	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business should develop, document, maintain, and practice cybersecurity incident response plans for relevant threat scenarios.</p> <p>Related NIST SP 800-53 Control(s): IR-1, IR-2, IR-8, IR-9</p>	<input type="checkbox"/> Not Started <input type="checkbox"/> In Progress <input type="checkbox"/> Implemented

4.A Incident Reporting	ASSESSMENT
<p>Cost: \$\$\$\$ Impact: HIGH Complexity: LOW</p> <p>DOE Requirement: The small business should have security incident reporting procedures to contact an internal incident response team and/or senior management. In addition, the small business should have the CISA, FBI, or local police contact information available to assist with security incidents and/or understand the broader scope of a cyberattack.</p> <p>Related NIST SP 800-53 Control(s): IR-6, IR-7, IR-4</p>	<p><input type="checkbox"/> Not Started</p> <p><input type="checkbox"/> In Progress</p> <p><input checked="" type="checkbox"/> Implemented</p>

- I acknowledge if selected for an award DOE may conduct onsite audits to evaluate the implementation of the CPGs to ensure accurate reporting of cybersecurity practices.
- I certify that the responses provided are true and accurate.

Name and Title:

Date:

Appendix III: Comments from the Department of Defense

 **OFFICE OF THE UNDER SECRETARY OF DEFENSE**
3030 DEFENSE PENTAGON
WASHINGTON, DC 20301-3030

**RESEARCH
AND ENGINEERING**

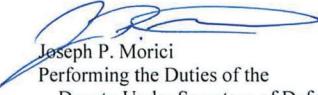
DEC 1 2 2025

Ms. Candice Wright
Director, Science, Technical Assessment and Analytics
U.S. Government Accountability Office
441 G Street, NW
Washington DC 20548

Dear Ms. Wright:

Enclosed is the Department of Defense response to the Government Accountability Office (GAO) Draft Report GAO-26-107972, titled "SMALL BUSINESS RESEARCH PROGRAMS: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks," dated September 30, 2025 (GAO Code 107972). Ms. Regina Sims, Defense SBIR/STTR Program Office, Director, is my point of contact and can be reached at regina.a.sims.civ@mail.mil or 202-604-2467.

Sincerely,


Joseph P. Morici
Performing the Duties of the
Deputy Under Secretary of Defense
for Research and Engineering

Enclosures:
As stated

**GAO DRAFT REPORT DATED SEPTEMBER 30, 2025
GAO-26-107972 (GAO CODE 107972)**

**“SMALL BUSINESS RESEARCH PROGRAMS: ADDITIONAL ACTIONS NEEDED
TO INCORPORATE BEST PRACTICES FOR ADDRESSING FOREIGN RISKS”**

**DEPARTMENT OF DEFENSE COMMENTS
TO THE GAO RECOMMENDATIONS**

RECOMMENDATION 1: The GAO recommends that the Secretary of Air Force should ensure the SBIR and STTR programs inform awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

DoD RESPONSE: Concur.

ENCLOSURE

Appendix IV: Comments from the Department of Homeland Security

U.S. Department of Homeland Security
Washington, DC 20528



**Homeland
Security**

BY ELECTRONIC SUBMISSION

December 19, 2025

Candice Wright
Director, Science, Technology Assessment, and Analytics
U.S. Government Accountability Office
441 G Street, NW
Washington, DC 20548-0001

Re: Management Response to GAO-26-107972, “SMALL BUSINESS RESEARCH PROGRAMS: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks”

Dear Ms. Wright:

Thank you for the opportunity to comment on this draft report. The U.S. Department of Homeland Security (DHS or the Department) appreciates the U.S. Government Accountability Office’s (hereafter referred to as “the auditors”) work in planning and conducting its review and issuing this report.

DHS leadership is pleased to note the auditors’ recognition that DHS fully or partially incorporated 10 out of the 12 best practices established by the Small Business Administration in March 2023 to help agencies manage risks posed by small business applicants in the Small Business Innovation Research and Small Business Technology Transfer programs. Specifically, the DHS Small Business Innovation Research Office established several practices in the Due Diligence Program to investigate foreign interference risk while also mitigating potential delays to timely execution of contract awards. DHS remains committed to strengthening processes that identify and mitigate risks posed by foreign entities and in the research and development of technologies that support the Department’s important mission to safeguard the American people and our homeland.

The draft report contained 26 recommendations, including 2 for DHS with which the Department concurs. Enclosed find our detailed response to each recommendation. DHS previously submitted technical comments addressing several accuracy, contextual, and other issues under a separate cover for the auditors’ consideration, as appropriate.

**Appendix IV: Comments from the Department
of Homeland Security**

Again, thank you for the opportunity to review and comment on this draft report. Please feel free to contact me if you have any questions. We look forward to working with you again in the future

Sincerely,

JEFFREY M. BOBICH 
Digitally signed by
JEFFREY M BOBICH
Date: 2025.12.19
16:31:52 -05'00'

JEFFREY M. BOBICH
Director of Financial Management

Enclosure

**Enclosure: Management Response to Recommendations
Contained in GAO-26-107972**

GAO recommended that the Secretary of Homeland Security:

Recommendation 8: Ensure the agency consistently communicates that disclosure does not mean denial to all its [Small Business Innovation Research] applicants through mechanisms such as disclosure form itself, the agency solicitation, or on a website as part of the application process.

Response: Concur. Pending reauthorization of the program, the DHS Small Business Innovation Research Office will add language to section 2.4, “Disclosure of Foreign Relationships” of the next solicitation released. This language will state that disclosure of foreign involvement or investment does not independently disqualify eligibility or an offer but failing to disclose such affiliations or relationships may result in denial of an award. Further, on December 15, 2023, the DHS Small Business Innovation Research Office incorporated the questions from the disclosure form into the proposal submission process to reduce the receipt of incomplete or incorrect information. During the proposal submission process, when an offeror clicks on the button “Work on Foreign Affiliation Disclosure,” in the portal, the offeror sees this same message displayed on the screen.

Estimated Completion Date: December 31, 2026.

Recommendation 9: Ensure the [Small Business Innovation Research] program informs awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

Response: Concur. Pending reauthorization of the program, the DHS Small Business Innovation Research Office will add language to section 2.4 “Disclosure of Foreign Relationships” of the next solicitation released. This language will state that updated disclosure forms are required to be submitted annually and within 30 days of any change in ownership, entity structure, covered individual, or other substantive changes in circumstance.

In addition, once the program is reauthorized, the DHS Small Business Innovation Research Office will add deliverables to the key milestones and deliverables document in the Phase I and Phase II contracts that will require the submission of an updated “Foreign Relationships Disclosure Form” within 30 days of any substantive change to the project or responses.

Estimated Completion Date: December 31, 2026.

Appendix V: Comments from the Department of Energy



Department of Energy
Washington, DC 20585

December 11, 2025

Ms. Candice N. Wright
Director
Science, Technology Assessment, and Analytics
U.S. Government Accountability Office
441 G Street N.W.
Washington, D.C. 20548

Dear Ms. Wright,

The Department of Energy (DOE or Department) appreciates the opportunity to comment on the Government Accountability Office's (GAO) draft report titled, "*Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks (GAO-26-107972)*." DOE provides the following comments below.

The draft report contained a total of twenty-six (26) recommendations, of which GAO directed one (1) recommendation to DOE. DOE concurs with GAO's recommendation as detailed in the enclosure.

GAO should direct any questions to Tara Fuller, Supervisory Audit Coordinator, at tara.fuller@hq.doe.gov.

Sincerely,

Thomas P. Griffin
Digitally signed by Thomas P. Griffin
Date: 2025.12.11 11:48:21 -05'00'

Thomas P. Griffin
Director, Office of Financial and Audit Management
Office of the Chief Financial Officer

Enclosure

Enclosure

**Management Response
GAO Draft Report:**

**Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks
(GAO-26-107972)**

Recommendation 7: The Secretary of Energy should update its current SBIR and STTR due diligence plan – *DOE Approach to SBIR/STTR Due Diligence* – to include the agency’s risk-based approach for conducting due diligence such as tiered levels of risk based on award phase and the process to identify higher-risk topics before they are posted.

DOE Response: Concur

The Department of Energy (DOE) will update its SBIR and STTR due diligence plan to address the recommendation included in this report. Specifically, DOE will update the plan to include documentation of the agency’s risk-based approach for conducting due diligence, including the process to determine higher-risk topics before they are posted and attention given to award phase.

Note that the DOE SBIR/STTR due diligence program has two components, (1) an RTES-led program which conducts risk reviews related to foreign ownership, patent analysis, and employee relationships, and (2) a cybersecurity specialist who conducts risk reviews pertaining to the cybersecurity posture of the applicant small business. As DOE SBIR/STTR’s cybersecurity program has provided GAO with a documented risk-based process, DOE’s concurrence pertains specifically to the RTES-led component of DOE’s SBIR/STTR due diligence program.

Estimated Completion Date: 10/1/2026

Appendix VI: Comments from the Department of Transportation



U.S. Department of Transportation

Office of the Secretary of Transportation

October 28, 2025

Candice Wright
Director, Science, Technology Assessment, and Analytics
U.S. Government Accountability Office
441 G Street NW
Washington, DC 20548

Dear Ms. Wright:

The U.S. Department of Transportation (DOT) highly competitive Small Business Innovation Research (SBIR) program awards over \$12 million annually in contracts to U.S. small businesses to research and develop innovative solutions for our Nation's transportation challenges. The DOT SBIR program favors research that has the potential for commercialization through products and applications sold to the private sector transportation industry, State departments of transportation, or other public or private entities.

DOT is committed to ensuring that SBIR contracts do not pose a security risk to the United States in accordance with the SBIR and Small Business Technology Transfer (STTR) Extension Act of 2022. To meet this requirement, the DOT SBIR program has implemented a risk-based plan that assesses the cybersecurity practices, patent analysis, employee analysis, and foreign ownership of each meritorious applicant. The plan outlines the risk-based approach and how any concerns will be handled. The DOT SBIR program also incorporated the "Best Practices for Federal Agencies SBIR and STTR Due Diligence Programs" developed by the Small Business Administration in March of 2023, including determination of the "covered individuals" that will be considered during the due diligence screening processes as noted in the Employee Analysis section of the DOT SBIR Due Diligence Plan.

Upon review of the draft report, DOT concurs with the Government Accountability Office (GAO) recommendation to ensure the agency clearly outlines its designation of "covered individuals" that is available to SBIR and STTR applicants and program staff to ensure consistent access and understanding. DOT will provide a detailed response to the recommendation within 180-days of the issuance of the final GAO report.

We appreciate the opportunity to respond to the GAO draft report. Please contact Gary Middleton, Director, Audit Relations and Program Improvement, at gary.middleton@dot.gov with any questions or if GAO would like to obtain additional details.

Sincerely,

A handwritten signature in blue ink that reads "Anne Byrd".

Dr. Anne Byrd
Assistant Secretary for Administration

Appendix VII: Comments from the Department of Education



UNITED STATES DEPARTMENT OF EDUCATION
WASHINGTON, D.C. 20202

December 15, 2025

Ms. Candice Wright
Director
Science, Technology Assessment, and Analytics
U.S. Government Accountability Office
441 G Street, NW
Washington, DC 20548

Dear Ms. Wright:

Thank you for providing the U.S. Department of Education (Department) the opportunity to review the U.S. Government Accountability Office's (GAO's) draft report titled, "Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks, GAO-26-107972." The Department concurred with GAO's recommendation.

Recommendation 6: The Secretary of Education should ensure that the [Small Business Innovation Research (SBIR)] program informs awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

Response: The Department will add this requirement to future solicitations for awards under the SBIR competition.

Thank you for the opportunity to respond to the draft report.

Sincerely,

MATTHEW
SOLDNER

Matthew Soldner
Acting Director
Institute of Education Sciences

Digitally signed by MATTHEW SOLDNER
DN: c=US, o=U.S. Government, ou=Department of
Education, ou=Institute of Education Sciences,
cn=MATTHEW SOLDNER,
0.923942192030010011>9100004811599
Date: 2025-12-15 09:05:29 -05'00'

Appendix VIII: Comments from the Environmental Protection Agency



OFFICE OF APPLIED SCIENCE AND ENVIRONMENTAL SOLUTIONS

WASHINGTON, D.C. 20460

December 16, 2025

Mr. Alfredo Gomez
Director
Natural Resources and Environment
U.S. Government Accountability Office
Washington, D.C. 20548

Dear Mr. Gomez:

Thank you for the opportunity to review and comment on the U.S. Government Accountability Office's (GAO's) draft report, *Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks* (GAO-26-107972). The purpose of this letter is to provide the U.S. Environmental Protection Agency's (EPA's) response to the draft report's recommendations.

EPA agrees with the recommendations and responses are provided below. Since Congress has not reauthorized the Small Business Innovation Research (SBIR) program, EPA is unable to provide estimated completion dates for the actions detailed below. If Congressional reauthorization is received, the agency will take appropriate action and update the GAO regarding the timeline for implementation.

Recommendation 11: The Administrator of the Environmental Protection Agency should update its current SBIR due diligence plan – EPA's SBIR Program Overview and Guidance Manual – to reflect the factors considered in documenting the agency's risk-based approach.

EPA Response: EPA agrees with this recommendation. EPA will update the SBIR Program Overview and Guidance Manual to reflect the factors considered in documenting the agency's risk-based approach.

Estimated Completion Date: If Congressional reauthorization is received, the agency will take appropriate action and update the GAO regarding the timeline for implementation.

Recommendation 12: The Administrator of the Environmental Protection Agency should ensure the agency clearly outlines its designation of "covered individuals" that is available to SBIR applicants and program staff to ensure consistent access and understanding.

EPA Response: EPA agrees with this recommendation. EPA will outline in our designation of "covered individuals" that is available to SBIR applicants and program staff to ensure consistent access and

Appendix VIII: Comments from the Environmental Protection Agency

understanding. EPA will specify in the solicitation instructions for applicants that covered individuals will include consultants, graduate students, and/or postdoctoral associates if they hold significant roles in the project.

Estimated Completion Date: If Congressional reauthorization is received, the agency will take appropriate action and update the GAO regarding the timeline for implementation.

Recommendation 13: The Administrator of the Environmental Protection Agency should ensure the SBIR program informs awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

EPA Response: EPA agrees with this recommendation. EPA will inform awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

Estimated Completion Date: If Congressional reauthorization is received, the agency will take appropriate action and update the GAO regarding the timeline for implementation.

Thank you again for the opportunity to review and respond to the subject draft report. If you have any questions regarding this response, please contact Caitlin Schneider at Schneider.Caitlin@epa.gov.

Sincerely,



Maureen R. Gwinn, Ph.D.
Acting Associate Administrator
Office of Applied Science and Environmental
Solutions

cc: Wesley Carpenter
Terrence Jackson
Caitlin Schneider
Edith Chu
Tim Watkins
Kacee Deener
David Shoffner
Kimberly Jarema
EPA GAO Liaison Team
Susan Perkins
Kristien Knapp

Appendix IX: Comments from the National Aeronautics and Space Administration

National Aeronautics and Space Administration

Mary W. Jackson NASA Headquarters
Washington, DC 20546-0001



Reply to Attn of: Space Technology Mission Directorate

Ms. Candice N. Wright
Director
Science, Technology Assessment, and Analytics
United States Government Accountability Office
Washington, DC 20548

Dear Ms. Wright:

The National Aeronautics and Space Administration (NASA) appreciates the opportunity to review and comment on the Government Accountability Office (GAO) draft report entitled, "Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks" (GAO-26-107972), dated September 30, 2025.

In the draft report, GAO found that agencies and selected components participating in the Small Business Administration's (SBA) Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs have incorporated some best practices to help manage risks posed by applicants, but gaps remain. GAO also found that most agencies assess small businesses' cybersecurity practices in accordance with the SBIR and STTR Extension Act of 2022, but two agencies are not. Finally, GAO found that SBA facilitates interagency meetings to discuss due diligence efforts, but SBA has not addressed gaps in due diligence practices.

GAO makes one recommendation addressed to the NASA Administrator. Specifically, GAO recommends the following:

Recommendation 14: Ensure its SBIR and STTR programs inform awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

Management's Response: NASA concurs fully with this recommendation and has already included the following language to be included in all upcoming and future solicitations: "Updated disclosures must be provided within 30 days of any substantive changes to the project, to include any changes to a required disclosure."

Estimated Completion Date: Upon Program reauthorization, this language will be included in the next solicitation released. December 31, 2026.

**Appendix IX: Comments from the National
Aeronautics and Space Administration**

2

We have reviewed the draft report for information that should not be publicly released. As a result of this review, we have not identified any information that should not be publicly released.

Once again, thank you for the opportunity to review and comment on the subject draft report. If you have any questions or require additional information regarding this response, please contact Art Maples at (202) 215-9438.

Sincerely,

**Gregory
Stover**

Greg Stover
Associate Administrator for Space Technology
Mission Directorate (Acting)

 Digitally signed by
Gregory Stover
Date: 2026.01.09 17:48:52
-05'00'

Appendix X: Comments from the National Oceanic and Atmospheric Administration

Department of Commerce
National Oceanic and Atmospheric Administration
Draft Report Response to
Government Accountability Office's:
Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks
(Job Code GAO-26-107972, November 2025)

General Report Comments

The Department of Commerce's National Oceanic and Atmospheric Administration (NOAA) appreciates the opportunity to review the Government Accountability Office's (GAO) report on *Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks*.

NOAA Response to Recommendations

The draft report made 4 recommendation(s) pertaining to NOAA.

Recommendation 22: The Under Secretary for Oceans and Atmosphere should direct the National Oceanic and Atmospheric Administration to encourage SBIR award recipients and applicants to leverage available federal research security training.

Agency Response:

We concur with this recommendation

Recommendation 23: The Under Secretary for Oceans and Atmosphere should ensure the National Oceanic and Atmospheric Administration consistently communicates that disclosure does not mean denial to all its SBIR applicants through mechanisms such as disclosure form itself, the agency solicitation, or on a website as part of the application process.

Agency Response:

We concur with this recommendation

Recommendation 24: The Under Secretary for Oceans and Atmosphere should ensure the National Oceanic and Atmospheric Administration SBIR program clearly outlines its designation of "covered individuals" that is available to applicants and program staff to ensure consistent access and understanding.

Agency Response:

We concur with this recommendation

Department of Commerce
National Oceanic and Atmospheric Administration
Draft Report Response to
Government Accountability Office's:
***Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices
for Addressing Foreign Risks***
(Job Code GAO-26-107972, November 2025)

Recommendation 25: The Under Secretary for Oceans and Atmosphere should ensure the National Oceanic and Atmospheric Administration informs SBIR awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

Agency Response:

We concur with this recommendation

Appendix XI: Comments from the National Science Foundation



U.S. National Science Foundation
Office of the Director

December 23, 2025

Candice Wright
Director
Science, Technology Assessment, and Analytics
U.S. Government Accountability Office
441 G Street NW
Washington, DC 20226

Dear Ms. Wright:

Thank you for the opportunity to review and provide comments on the Government Accountability Office (GAO) draft report, *Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks* (GAO-26-107972). The U.S. National Science Foundation (NSF) values the GAO staff's professionalism and many constructive interactions during this GAO engagement.

NSF agrees with GAO's recommendations and will build upon steps NSF already has taken so as to fully and formally implement the recommendations. We will submit a Corrective Action Plan setting out relevant actions and target dates. We will further strengthen our enhanced due diligence program for detecting and mitigating foreign influence in our Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. NSF appreciates the opportunity to review and comment on this draft report. Please feel free to contact Veronica Shelley at vshelley@nsf.gov or 703-292-4384 if you have any questions or require additional information. We look forward to working with you again in the future.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brian Stone".

Brian Stone
Chief of Staff
Performing the Duties of the NSF Director

2415 Eisenhower Avenue, Suite 19100 Alexandria, VA 22314

Appendix XII: Comments from the U.S. Department of Agriculture



December 18, 2026

Candice N. Wright
Director
Science, Technology Assessment, and Analytics
U.S. Government Accountability Office
WrightC@gao.gov

Dear Ms. Wright:

The U.S. Department of Agriculture (USDA) appreciates the opportunity to review and comment on the U.S. Government Accountability Office's (GAO) official draft report titled, *Small Business Research Programs: Additional Actions Needed to Incorporate Best Practices for Addressing Foreign Risks* (GAO-26-107972). GAO made 4 recommendations to USDA in the draft report.

Recommendation 2: The Secretary of Agriculture should ensure the agency consistently communicates that disclosure does not mean denial to all its SBIR and STTR applicants through mechanisms such as disclosure form itself, the agency solicitation, or on a website as part of the application process.

Response: USDA generally concurs with the recommendation. The USDA National Institute of Food and Agriculture (NIFA) is planning to add language to its SBIR and STTR application materials to explain that disclosure of information related to foreign involvement or investment will not independently disqualify an applicant.

Recommendation 3: The Secretary of Agriculture should ensure the agency clearly outlines its designation of “covered individuals” that is available to SBIR and STTR applicants and program staff to ensure consistent access and understanding.

Response: USDA generally concurs with the recommendation. NIFA is planning to add language to its SBIR and STTR application materials and award terms and conditions to designate “covered individuals”.

Recommendation 4: The Secretary of Agriculture should ensure the SBIR and STTR programs inform awardees in a written statement that updated disclosures must be provided within 30 days of any substantive changes to the project.

1400 Independence Avenue, SW, MS 2201 | Washington, DC | 20250-2201

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**Appendix XII: Comments from the U.S.
Department of Agriculture**



Response: USDA generally concurs with the recommendation. NIFA is planning to add a written statement to its SBIR and STTR application materials and award terms and conditions to specify that updated disclosures must be provided within 30 days of any substantive changes to the project.

Recommendation 5: The Secretary of Agriculture should assess SBIR and STTR applicants' cybersecurity practices, ensuring these assessments focus on basic small business safeguarding protocols and remain consistent with federal cybersecurity frameworks.

Response: USDA generally concurs with the recommendation. NIFA will explore options for incorporating cyber security assessments into its due diligence program.

Sincerely,

A handwritten signature in black ink that reads "jaye l. hamby".

Dr. Jaye L. Hamby
Director
USDA National Institute of Food and Agriculture

1400 Independence Avenue, SW, MS 2201 | Washington, DC | 20250-2201

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Appendix XIII: GAO Contact and Staff Acknowledgments

GAO Contact

Candice N. Wright at wrightc@gao.gov

Staff Acknowledgments

In addition to the contact named above, Farahnaaz Khakoo-Mausel (Assistant Director), Sharron Candon (Analyst-in-Charge), Tim Jackson, Minda Nicolas, and Jason Stonehocker made key contributions to this report. In addition, Kami Brown, Jenny Chanley, Elena Epps, Patrick Harner, Mark Kuykendall, and Curtis R. Martin contributed to the report.

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